Owners Manual

TEC ELECTRONIC CASH REGISTER

MA-1040-400 SERIES

TEC TOKYO ELECTRIC CO., LTD.

TABLE OF CONTENTS

TO OUR CUSTOMERS

Thank you for choosing a TEC electronic cash register MA-1040-400 series. This instruction manual provides a description of the functions and handling of this register and should be read carefully to obtain maximum performance. Since every consideration has been given to safety, there is no danger of damaging the machine by incorrect operation.

Please refer to this manual whenever you have any doubts concerning the machine. This machine has been manufactured under strict quality control and should give you full satisfaction. However, if the machine is damaged during transit, or there are any unclear points in this manual, please contact your local TEC representative.

[] The specifications described in this manual may be modified by TEC, if necessary.
[] Be sure to keep this manual for future reference.

PRECAUTIONS

1. The keys on the keyboard work with a light touch. Avoid pressing the keys too hard.
2. Avoid handling the machine with wet hands.
3. Do not apply thinner or other volatile oils to the cabinet or other plastic parts. If dirty, wipe off with a piece of cloth soaked in neutral detergent and squeezed tighly.

APPEARANCE AND NOMENCLATURE
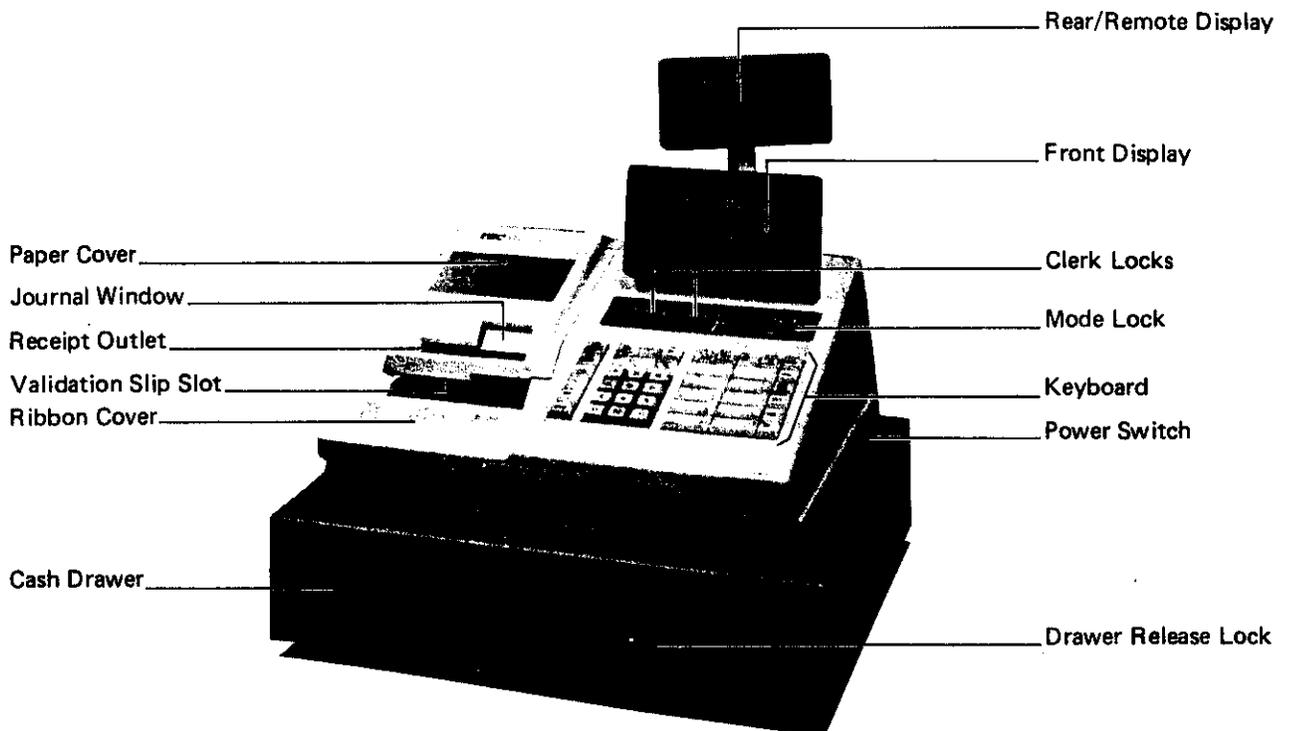
[] **Power Switch** ... The power switch is provided at the righthand side of the cabinet. The AC power is turned on when the switch is pushed to ON, and turned off when the switch is pushed to OFF.

CONTROL LOCKS AND MODE SELECTOR KEYS

MODE LOCK   (POSITION)   (FUNCTION)

SET .... In this position, the register will allow programming oprations.

LOCK ... Displays the current time. The register operations are locked when the Mode Lock is set to this position. Only paper feeding (using [RF] or [JF] key) will be allowed.

REG .... Normal cash register operations are carried out in this mode, requiring one of the Clerk Keys to be set to ON. The operations programmed to require the "MGR" position cannot be done in this mode.

X ...... The sale total can be read and the programmed data can be verified in this position. Tax calculation test may be operated also in this position.

MGR .... This position allows to register all normal cash register operations to be carried out in the "REG" mode and the operations programmed to require the "MGR" position. A Clerk Key is required.

[-] .... This is the "Negative Mode", which automatically processes all the entries in the reverse way, i.e., positive items into negative, and the negative items into positive. A Clerk Key is required.

Z ...... All the resettable totals and their respective counters will be read <u>and</u> reset in this position.

REG Key: The REG Key is used by the cashier who operates the register. This key can access the positions of LOCK and REG.
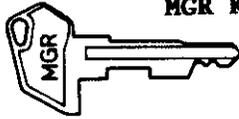
MGR Key: The MGR Key is used by the store manager or a person authorized by the manager. This key can access the positions of LOCK, REG, X, and MGR.
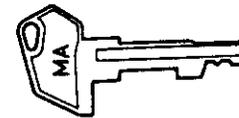
MA Key: The MA Key is used by the store manager who will daily supervise the collection of money and the printout of transactions recorded by the register. This key can access the positions of LOCK, REG, X, MGR, [-], and Z.

SET Key: The SET Key is used by the programmer. This key can access the positions of LOCK and SET.

The keys may be inserted or pulled out at the "LOCK" or "REG" position.

CLERK LOCKS AND KEYS

Key-lock Type (Standard)
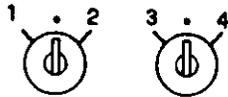
These locks are used to identify which clerk is operating the register.

Clerk Keys (1, 2, 3, 4)
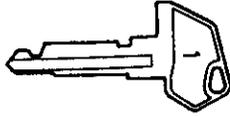
Each clerk should keep his/her clerk key. The register will not operate unless one of these keys is inserted and set to the corresponding position on the Clerk Locks. Each of the keys may be inserted and pulled out in the neutral position marked with the "." (point).

Push-key Type (Alternative Option)
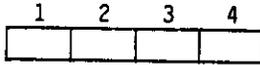
This type may be installed in place of the standard key-lock type mentioned above, as an alternative option. Each clerk is assigned to his/her own clerk key (1 to 4). The register will not operate unless one of these keys is pushed to stay down.

DISPLAY

The Operator's Display (front display) is located at the top of the register just above the keyboard. The Customer's Display may be used as Rear Display if it is kept in the receptacle or used as Remote Display if it is stretched up and turned to the required direction. The display has two types of display -- numeric display and message descriptors.

The angle of the Operator's Display in the up-and-down direction is adjustable.

|←——————— OPERATOR'S DISPLAY ———————→|

```
        P L U
     DPT   RPT            A M O U N T
      0  1  2    1  2  3  4  5  6  7  8
      V   V   V    V    V   V   V   V   V   V   V
         SLP ALM  REG  (-)  FS TXBL ST  TL  CG SHORT
```

|←——— CUSTOMER'S DISPLAY ———→|
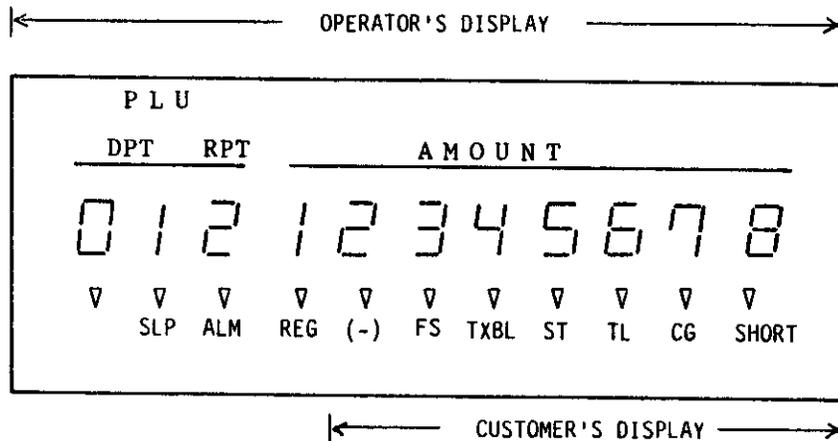
NUMERIC DISPLAY

AMOUNT (8 digits): Displays the numeric data, such as amount, quantity, etc.

DPT (2 digits): Displays the code which represents each Department key. It says lit when repeating the same department item entry.

RPT (1 digit): Displays the repeat count of the same item. The count is indicated from the second entry on, and only the first digit will be displayed even if the count exceeds nine.

PLU (3 digits; the DPT and RPT digits are commonly used for this purpose.):
Displays the PLU code when any PLU is entered. It goes out when repeating the same PLU entry.

MESSAGE DESCRIPTORS (TRI-MARK LAMPS)

SLP: Lights up when a slip has properly been inserted to allow validation. It flickers to require a slip insertion when validation compulsion is programmed on the transaction key just operated.

ALM: Lights up with the alarm buzzer to indicate that the last operation or numeric entry has resulted in an error. To clear the error condition, depress the [C] key.

REG: Lights up when a sale item has been entered.

(-): Lights up when the [RTN MDSE], [DOLL DISC], [%-], or [ITEM CORR] key has been operated.
It also lights up when the [ST], [TXBL TL], or one of the total (media) keys has been depressed and the displayed amount is negative.
It lights up also when an amount is entered in the " - " mode.

FS: Lights up when a Food-Stampable department or PLU item is entered. It also lights up along with the "TL" lamp when the [FSTL TEND] key is depressed.

TXBL: Lights up when a taxable item has been entered. It also lights up when the [TXBL TL] key is depressed, indicating that the amount displayed is the sale total plus taxes due (in which case the "ST" lamp also lights up). This "taxable total display" function is also applied when the [ST] key is depressed if the option "Taxable Total Display on [ST] Key Depression" is selected.

ST: Lights up when the sutotal amount is displayed after the [ST] key has been depressed.

TL: Lights up on a finalizing operation with the total amount displayed when a sale is finalized without any amount tendered.

CG: When an amount tendering operation has been performed, this lamp lights up with the change due displayed.

SHORT: Lights up when the amount tendered is less than the sale total with the shortage amount displayed.

KEYBOARD LAYOUT

The following is a typical keyboard layout for the MA-1040-400 series. Since this series is designed to be capable of programming most of the keys in the most desired location on the keyboard, this is merely an example. Please contact your TEC representative if any other alternative or additional keys must be installed, referring to the description of the "FUNCTION OF EACH KEY" section in this manual.

ON

OFF

IC/.VD
STR CPN
RTN MDSE
@/FOR
AMT
PLU

VALI DATE	RF	JF
C	FS/M	TX/M
7	8	9
4	5	6
1	2	3
0	00	.

#/NS	PO	VND CPN	R/A	FSTL TEND
		1	6	Chg
		2	7	CHK TND
		3	8	ST
		4	9	AT/TL
		5	10	

FUNCTION OF EACH KEY

ON

OFF
RECEIPT

RECEIPT ON/OFF SWITCH ([RECEIPT ON/OFF])

This switch has two positions available, 'OFF' and 'ON' positions. When in the 'OFF', no receipt is issued from the register and sales are printed on the journal roll only. When the switch is slided to the 'ON' position, sales are printed on both receipt roll and journal roll, then a receipt is issued which is automatically cut off and then given to the customer.

Alternating the switch position during a sale will not result in an error. In this case, the position set at the starting will rule whether a receipt is issued or not. When a reset (Z) report is taken, however, the data will be printed also on the receipt roll regardless of the switch position.

RF

RECEIPT FEED KEY ([RF])

This key is used to advance the receipt roll. It is operated by depressing the key and holding it in that position until the paper has advanced to the required position.

The receipt roll can be advanced even when the [RECEIPT ON/OFF] switch is in the OFF position. Receipt feeding during a sale is also allowed.

JOURNAL FEED ([JF])

This key is used to advance the journal roll in the same fashion as the [RF] key. This key is useful if the cashier, due perhaps to an interruption whilst ringing up a sale, is unsure which items have already been entered. By using this key, the cashier can see which figures have actually been printed.

The [RF] and [JF] keys can not be operated simultaneously.

NUMERIC KEYS (|__|)

These are used to enter numeric values such as amount, quantity, or code number.

Depressing the [00] key once is the same as depressing the [0] key twice consecutively.

The maximum listing capacity is 8 digits for inputting a numeric value only, and 7 digits for registration except that a non-add number (through the [#] or [#/NS] key) may be entered in maximum 8 digits.

DECIMAL POINT KEY ([.])

This key is used, as part of the numeric keys, to designate the position of the decimal point when entering a percent rate or a quantity with a decimal portion. For example, to enter 0.5%, index 0→[.]→5, or [.]→5.

When entering a price or amount such as $0.25, just index 2→5. In this case, depression of the [.] key is not necessary and will cause an error.

TRIPLE-ZERO KEY ([000])

This key may be installed as part of numeric keys. Depressing the [000] key once is the same as depressing the [0] key three times consecutively or the same as depressing [0] and then [00] in series.

| 1 | · | ~ | 10 | **DEPARTMENT KEYS** ([DEPT])

These are department keys through which sales items are registered. These keys may be programmed as either 'OPEN' or 'PRESET' department keys:

OPEN DEPARTMENT KEY   ([Open DEPT])

A department key which has no preset price programmed is an 'OPEN' key and must have a price entered into it manually each time. The price is rung up on the numeric keyboard and then the appropriate department key is depressed. The price is then displayed and printed on the receipt and journal rolls.

When the same department key is depressed more than once after a price entry, the price entry is repeated as many times as the department key is depressed.

To enter a price extended by multiplication, enter the quantity first, depress the [@/FOR] key, enter the unit price, and then depress the appropriate department key. A multiplication entry will not be repeated by depressing the department key again.

PRESET DEPARTMENT KEY   ([Preset DEPT])

A preset key is a key which has already a price programmed in it. It is therefore unnecessary to enter the price of an item; simply depress the key to register the sale of one item.

To repeat the same preset item, depress the department key as many times as desired.

To multiply a preset department price by a quantity, enter the quantity first, depress the [@/FOR] key, and then depress the preset department key.

Each department can be programmed with a preset price, a HALC (High Amount Listing Capacity), positive or negative use, tax stats, food stamp status, and a descriptor (the name of the department or its merchandise in a maximum of 8 alpha/numeric characters).

When a department is programmed as a negative department, a price entry can not be repeated by depressing the department key again. Neither can a price entry be repeated when the [RTN MDSE] or [PR OPEN] key has been depressed prior to any department key depression.

A department key may be programmed to be used as single-item entry keys. See the "Single-item Department Keys" description below.

Single-item Department Keys

A Single-item Department Key is used to quicken a single cash sale item entry process, instead of depressing an ordinary itemized department key and [AT/TL] key. On depressing this key, the sale is finalized and a receipt is issued. Any number of the department keys installed on the keyboard may be programmed as Single-item Department Keys.

Additional Department Keys

A maximum of 20 department keys (including the present department keys) are available.

C

CLEAR KEY ([C])

This key is used to correct a numeric entry error or a declaration key (such as [RTN MDSE]) entry error prior to depressing a motorized key (such as [DEPT]) or to correct any error condition and cancel the alarm tone.

If the [C] key is depressed after a subtotal is once obtained, the subtotal amount is again displayed. If the sale total plus taxes is once obtained by the [TXBL TL] key or the [ST] key with the "Taxable Total Display" option, depressing the [C] key thereafter will display the sale total plus taxes.

@/FOR

AT-FOR (QUANTITY EXTENSION AND SPLIT-PACKAGE PRICING) KEY ([@/FOR)

This key is used to multiply a department or PLU item entry by a quantity (Multiplcation Function). This key is also used to auto-calculate a split-package price (for example, the customer wants only two of five tomatoes in one package) (Split Price Function).

The basic order of multiplication is:

|QUANTITY| → [@/FOR] → |UNIT PRICE|

As for detail operations of multiplication and split pricing for various cases, refer to the "REGISTERING PROCEDURE FOR SALES" section.

In multiplications, the QUANTITY can be a maximum of 3 integral digits and 3 decimal digits. The price can be a maximum of 6 digits. The product must not exceed 8 digits for department entries, or 7 digits for PLU, or negative department entries.

Usually, the fraction below the least significant digit will be rounded off. However, it may be programmed to rounded up or discarded by a programmable option.

PR
OPEN

PRESET OPEN KEY ([PR OPEN])

This key is used to modify the status of preset department keys. When the [PR OPEN] key is depressed prior to depressing a preset department key (either before or after the numeric entry), the preset department key is reversed to non-preset (i.e. open) and allows amount entry through the numeric keyboard.

If a preset department is entered with a price through the numeric keyboard using the [PR OPEN] key in the manner just mentioned, no repeat operation for the same price entry is then possible for that department key.

The [PR OPEN] key can not be used with the [PLU] key.

LC
OPEN

LISTING CAPACITY OPEN KEY ([LC OPEN])

This key is used to release the listing capacity on each Department (or on each open PLU linked to the department accordingly) or media key. To operate, depress the [LC OPEN] key before depressing the department (either before or after the amount entry), or any time before the [AMT] key in an open PLU entry sequence, or before depressing the media key.

By depressing the [LC OPEN] key, the HALC (High Amount Listing Capacity) will be released to allow a numeric entry with two further digits, and the LALC (Low Amount Listing Capacity) will be one digit less than the programmed value, as to the department/PLU entry. As for the media keys, the HALC will be extended to allow one further digits.

The [LC OPEN] key will not function release the amount limit setting on the [VND CPN] key.

In order to allow an amount entry beyond the values defined with the use of the [LC OPEN] key, the Mode Lock must be turned to the "MGR" position, which position also allows a any amount entry through the [VND CPN] key.

OPEN

PR-AND-LC OPEN KEY ([OPEN])

This is a dual-function key that has both [LC OPEN] and [PR OPEN] key functions.

#

NON-ADD NUMBER PRINT KEY ([#])

When the Mode Lock is in the REG, MGR, or ☐ position, this key is used to print a non-adding number (such as Customer No., Check No., Credit Card No., etc.) on the receipt and journal for future reference.

To operate, enter a maximum of 8-digit number and then depress this key. The number is then printed. This operation may be performed any time between items, before or after all the sale items (if operated before finalizing the sale).

Usually, non-add numbers may be entered as many times as required within a sale. However, it is programmable to prohibit more than one non-add number entry within a sale.

When the Mode Lock is in the X position, this key is used to read the Cash-in-drawer Total memory.

| NS |

NO-SALE KEY　([NS])

This key is used, when the Mode Lock is in the REG or MGR position, to open the cash drawer while the machine is outside a sale. This operation is used to give changes (exchange bills into coins) or to check the receipt and journal print condition.

Usually, a non-add number may be entered prior to a no-sale operation within a receipt. However, it can be programmed to prohibit a non-add number entry when a no-sale is operated.

| #/NS |

NON-ADD NUMBER PRINT / NO-SALE KEY　([#/NS])

This is a dual-function key.

NON-ADD NUMBER PRINT FUNCTION (same as [#] on page 9)

When the Mode Lock is in the REG, MGR, or ⊟, and a number is entered before depressing this key, this key functions as NON-ADD NUMBER PRINT key.

This key also functions to read the Cash-in-drawer Total memory when the key is simply depressed while the Mode Lock is in the X position.

NO-SALE FUNCTION (same as [NS] above on this page)

When the Mode Lock is in the REG, MGR, or ⊟, and the key is simply depressed without any prior numeric entry, this key functions as NO-SALE key.

NOTE: This key will always function the same as the [#] key when the Mode Lock is in the SET position.

| PLU |

PLU (Price-Look-Up) KEY　([PLU])

This key is used to enter a PLU that is linked to a department. Each PLU can be programmed to be preset PLU (to allow the preset price only) or an open PLU (to enforce a price entry through the numeric keys each time).

TO ENTER THROUGH PRESET PLU:

|PLU Code| → [PLU] ... The preset price will automatically be
1- to 3-digit   read and entered.
  number   To repeat the same PLU price, depress the
                       [PLU] key only, after the above operation.

TO ENTER THROUGH OPEN PLU:

|PLU Code| → [PLU] → |PRICE| → [AMT]

                        ... The price indexed through the numeric keys
                        will be entered.
                        To repeat the same PLU item and price,
                        depress the [AMT] key only, after the
                        above operation.

As for quantity extension involving PLUs, refer to the [X] key
description and the "REGISTERING PROCEDURE FOR SALES" section.

Each PLU is programmed with a 3-digit PLU Code, a 2-digit linked
Department Code, 6-digit Preset Price / Open-price Status, and
8-character descriptor (name of the PLU or its merchandise). The tax
status, Single-item/Itemized Status, and the Positive/Negative Status
will be ruled by the statuses of the department to which the PLU is
linked. The listing capacity of an open PLU is also ruled by the HALC
of the linked department.

AMT

AMOUNT KEY ([AMT])

This key is used to enter an amount or price for an open PLU. Refer
to the description for the [PLU] key on the previous page to this
page.

RTN
MDSE

RETURNED MERCHANDISE KEY ([RTN MDSE])

This key is used for refunding money to a customer who has returned
goods to the store.

To operate, depress the [RTN MDSE] key any time during a department or
PLU entry sequence (quantity extension is also possible) before
depressing the final key of the sequence. (The final key: [DEPT] for
a department entry, [PLU] for a preset PLU entry, [AMT] for an open
PLU entry) The amount is automatically printed and deducted from the
bill.

| ITEM |
| CORR |

ITEM CORRECT KEY ([ITEM CORR])

This key is used to delete the last item within a transaction.

Depressing this key once will remove the last line item from the bill, printing a line through that item on the receipt and journal.

The item-correct function is effective even when a numeric entry and a [C] key depression are already performed between the item-to-be-corrected and the [ITEM CORR] key depression. However, if any other key-in operation including an error comes inbetween, the item-corret will not function for the last line item any more.

The [ITEM CORR] key may function to delete the last item entered through a positive department, PLU, [%+], [%-], [DOLL DISC], [R/A], [PO], or [TAX](Manual Tax) key. But a department or PLU item entered with the [RTN MDSE] key cannot be item-corrected. Neither can a negative department or PLU, an entry through any media key, [ST], any line item of non-add number, or an item-correct entry itself be item-corrected.

| VALI |
| DATE |

VALIDATION KEY ([VALIDATE])

This key is used to print a validation slip.

To operate, after registering the required item, insert a slip into the validation slot and depress the [VALIDATE] key. The item and the amount will be printed on the slip.

If the "SLP" lamp flickers, it means that validation compulsion is programmed for the last item entered. In this case, operate a validation print as described above. No other operations will be allowed until the compulsory validation is executed.

Print or non-print of the date and/or the consecutive No. is a programmable option. Also programmable are single- or mutli-validation (number of times of validation print for the same item), validation compulsion on certain transaction keys, etc.

| %+ |

PERCENT CHARGE KEY ([%+])

This key is used to add a percent rate to a sale. If the preset rate is to be added, depress the [%+] key without a prior numeric entry. If a rate different from the preset one is required, enter the desired rate on the numeric keyboard and then depress the [%+] key. The manual rate will take priority.

To operate, depress the [%+] key either immediately after a department or PLU entry if only that item requires the percent addition, or after the [ST] key has been depressed if required on the total bill. The percent rate and the amount are printed and added to the sale total.

The percent rate may be within the range from 0.001 to 99.999%. The fraction resulted from the percent calculation is usually programmed to be rounded off. However, it can be programmed to be rounded up or discarded.

Usually, [%+] key operations may be performed as many times as required after obtaining the subtotal. However, it can be programmed to prohibit more than once.

| %- |

PERCENT DISCOUNT KEY ([%-])

This key operates in the same fashion as the [%+] key except that operation will subtract from instead of adding to a sale.

| DOLL |
| DISC |

DOLLAR DISCOUNT KEY ([DOLL DISC])

This key is used to subtract an amount from the sale total such as a discount during a sale. This key can not normally be used outside a sale. An amount exceeding the sale total can not normally be entered. However, when the "Credit Balance" option has been selected, this key can be used inside or outside the sale and over-subtraction of the sale is allowed.

To operate, enter the discount amount on the mumeric keyboard, and then depress the [DOLL DISC] key.

| R/A |

RECEIVED ON ACCOUNT KEY ([R/A])

A received-on-account transaction is used to identify money which in the drawer but not business. The amount entered is thus included in the In-drawer Total but not in the sales totals.

To operate, enter an amount of payment and then depress the [R/A] key. Repeat this operation if multiple payments are entered at a time. The payments thus entered may be finalized by the [AT/TL] (for cash payments). The [CHK TND] and/or [Chg] key may also function to finalize payments received on account if not prohibited in program option. The above oepration can only be done when the register is outside a sale.

The [ITEM CORR] key is effective to delete a payment just recorded with a depression of the [R/A] key, if before the transaction is finalized by a media key.

This key will not function when the Mode Lock is in the [-] position.

| PO |

PAID OUT KEY ([PO])

A paid-out transaction is used when an amount of money is removed from the cash drawer without relating to a sale. When the [PO] key is used, the amount entered is subtracted from the Cash-in-drawer Total but does not affect the sales totals.

To operate, enter an amount taken from the cash drawer and depress the [PO] key while the register is in an out-of-sale condition. This operation may be carried out as many times as required within a receipt if multiple paid-out items are registered in one transaction. The paid-out amounts recorded are finalized by the [AT/TL] key (i.e. for cash payments only).

The [ITEM CORR] is effective to delete a payment just recorded with a depression of the [PO] key, if before the transaction is finalized by the [AT/TL] key.

This key will not function when the Mode Lock is in the |-| position.

| ST |

SUBTOTAL KEY ([ST])

This key is used to obtain the subtotal amount during a sale. When this key is depressed after all the items have been rung up, the subtotal of the sale is printed and displayed.

The displayed amount content differs depending on a system option selection:

"[ST] Key Displays Taxable Total" Option
In this case, the taxable total (sale total + taxes) will be displayed on depressing [ST], while the subtotal (sale total without taxes) will be printed.

"[ST] Key Displays Subtotal" Option
In this case, the subtotal (sale total before adding taxes) will be displayed and printed.

If the [ST] key is depressed more than once consecutively, the first depression only will print and display the amount; further depressions will only display but not print the amount.

A programmable option provides the selection not to print but only display the amount even on the first depression of the [ST] key.

Mandatory depression of this key prior to finalizing is another programmable option (applied only when the "[ST] Key Displays Taxable Total" option is selected).

TXBL
TL

TAXABLE TOTAL KEY ([TXBL TL])

This key is used to obtain the amount of sale total plus taxes due. The amount will display only but not print. (This key is not necessary to be installed on the keyboard when the [ST] key is installed and at the same time the option "[ST] Key Displays Taxable Total" (refer to the [ST] key description on page 14) is selected.

In order to allow add-on operations to follow the use of this key, the taxes are not added into any totals until actual finalization is initiated.

Mandatory depression of this key prior to finalizing a sale is a programmable option (applied only when the option "[ST] Key Displays Subtotal" is selected).

AT/TL

CASH AMOUNT TENDER / CASH TOTAL KEY ([AT/TL])

This key is used to record all cash paid on transactions, and will be able to finalize a sale operation. Usually the key is programmed function as both cash tender and cash total key. However, the key may be programmed to operate with enforced tendering only or as a cash total key only.

AMOUNT TENDER FUNCTION

In payment of the sale, enter the amount tendered by the customer, and then depress the [AT/TL] key. The change is automatically computed, displayed, and printed.

When the amount tendered is smaller than the sale total, it prints the amount tendered on the receipt with the balance still due displayed, but the drawer is not yet opened. In this case, as the customer for additional payment in cash and repeat the same tendering operation, or use another media key ([CHK TND] or [Chg]) if the balance due is processed as a sale in that media.

TOTAL KEY FUNCTION

To obtain the total and finalize a cash sale, depress the [AT/TL] key only. The sale is finalized with the total printed and displayed, and the drawer opens.

NOTES: If the [AT/TL] key has been programmed to function as "Tender" key only and the sale total is "0" or negative, no amount tendered can be entered. In this case, the [AT/TL] key will function as the "Total" key, so just depress the [AT/TL] key to obtain the total and finalize the sale.

If the option "[TXBL TL] Key Compulsory" has been selected, the [TXBL TL] key (or the [ST] key programmed with the "Taxable Total Display" function) depression for obtaining the sale total is required before finalizing any sale.

The [AT/TL] key is also used to finalize received on account payment or paid-out amount entries.

The sale total amount will be printed on the receipt in double-sized characters if it is within a 4-digit value.

CHK
TND

CHECK TENDER KEY ([CHK TND])

This key is used to cash a check when the register is outside a sale, or to finalize the transaction as a check payment.

CHECK CASHING

When the register is outside a sale, enter the check amount and depress the [CHK TND] key. A receipt is issued and the drawer is opened to enable exchange. However, this cashing function may be prohibited by a program option.

FINALIZING AS CHECK PAYMENT

For finalizing a sale, enter the amount of the check tendered by the customer and depress the [CHK TND] key. If the amount received is larger than the sale total, the receipt is issued with the change due printed and displayed. Then the change is given to the customer in cash. If the amount tendered is smaller than the sale total, the shortage is displayed, and the customer may pay the additional amount in cash to finalize the sale by depressing the [AT/TL] key.

The [CHK TND] key is usually programmed, as just described, to function as "Tender" key. However, it may be programmed to be used as "Total" key, or as both "Tender and Total" key, just as in the case of the [AT/TL] key.

Over-tendering using the [CHK TND] key is usually allowed. However, it may be programmed to be prohibited.

The [CHK TND] key is also used to finalize received-on-account payment entries when paid in check. However, this function may be prohibited by a program option.

Chg

CHARGE TOTAL KEY ([Chg])

This key is usually programmed as "Credit Total" key. However, it may be programmed to be the key for other media such as payments in credit cards. Thus this key is used as an alternative method of payment for media other than cash and check. To operate, depress the [Chg] key, instead of [AT/TL], to obtain the total and finalize the sale.

This key may finalize received-on-account payments if not prohibited by a program option.

This key has exactly the same functions and programmabilities as the [CHK TND] key except that the [Chg] key is usually programmed as a "Total" key but not a "Tender" key.

The [AT/TL], [CHK TND], [Chg], and [FSTL TEND] keys are called finalizing (sale-finalizing) keys or media keys, and each of them will be used to finalize a sale according to the media paid by the customer. The short-tendering may be programmed to be prohibited as common program option for those media keys (except [FSTL TEND]).

| TX/M | (for Single-tax Area)

TAX MODIFIER KEYS   ([TX/M]
                        [TX1/M]
                        [TX2/M]

| TX1/M | TX2/M | (for Dual-tax Area)

                        [TX3/M])

| TX1/M | TX2/M | TX3/M | (for Triple-tax Area)

Each of these keys is used to reverse the tax status (taxable/non-taxable status) on departments or other tax-status-programmable keys for one entry only. For multi-tax area, a maximum of three keys should be provided -- [TX1/M], [TX2/M], and [TX3/M] -- in place of the [TX/M] key for single-tax areas. The three tax modifier keys will function independently each from the others, with its own tax table pre-programmed for taxable items.

The tax modifier key(s) will be effective to reverse the tax status programmed on departments, PLUs, [DOLL DISC], [%+], [%-], [VND CPN], and [STR CPN] keys.

To operate, depress the required tax modifier key(s) prior to depressing any of these function keys above listed, i.e. either before or after the amount entry. Please note that in multi-tax areas each tax modifier key corresponds to its own tax table status. For example, [TX1/M] corresponds to Tax 1 status (e.g. National Tax), [TX2/M] to Tax 2 status (e.g. State Tax), etc.

The tax modifier keys are also used, in combination with the [EX] key, to exempt required tax(es) from the sale. Refer to the [EX] key description placed later in this section.

| TAX |

MANUAL TAX KEY   ([TAX])

This key is used to enter an irregular tax amount that cannot be auto-calculated on the basis of the programmed tax table, and to add it to the sale total.

To operate, enter the desired amount of tax and then depress the [TAX] key. The amount entered is then printed. This tax amount is processed into TAX 4 memory. Therefore, the tax amount auto-calculated and printed at finalizing the sale (TAX 1 to TAX 3) does not include a manual-tax, while the entire sale total printed on the receipt last line include the manual-tax also.

This key is also used, if depressed without an amount entry within a sale, to display the total of only non-taxable items so far entered. Usually, this non-taxable items total is only displayed; however, it may also be programmed to print.

TAX EXEMPT KEY ([EX])

| EX |

This key is used to declare the exemption of the taxes from the sale, displaying the sale total of the post-tax-exemption, printing the sale amount portion subject to the designated tax exemption. Only a finalizing operation is possible after an [EX] key depression.

The [ITEM CORR], [VOID], or [IC/VD] keys cannot function to delete an [EX] key entry.

When multiple tax modifier keys are installed, partial tax exemption as well as all tax exemption may be performed in the following ways:

[TX1/M] - [EX] .... to exempt TAX 1 only

[TX2/M] - [EX] .... to exempt TAX 2 only

[TX3/M] - [EX] .... to exempt TAX 3 only

[TX1/M][TX2/M] - [EX] .... to exempt TAX 1 and TAX 2

[TX2/M][TX3/M] - [EX] .... to exempt TAX 2 and TAX 3

[TX1/M][TX3/M] - [EX] .... to exempt TAX 1 and TAX 3

To exempt all the taxes, simply depress [EX] (or depress all the tax modifier keys first, and then depress [EX]).

RECEIPT POST-ISSUE KEY ([RECEIPT ISSUE])

| RECEIPT ISSUE |

This key is used to issue the receipt of a sale when the sale has already been finalized with the [RECEIPT ON/OFF] switch positioned to OFF (the sale receipt has not been issued, accordingly).

To operate, depress the [RECEIPT ISSUE] key without a numeric entry. The receipt for the last sale is issued, with only the sale total printed but not detail line items. This key will not function if another sale has already been under way.

A program option enables to issue the post-receipt by depressing the [RECEIPT ISSUE] key regardless of the [RECEIPT ON/OFF] switch position.

VENDOR COUPON KEY ([VND CPN])

| VND CPN |

This is a motorized credit key to subtract vendor coupon amount from the sale.

To operate, enter the coupon amount and depress the [VND CPN] key. This operation can only be performed inside a sale. The coupon amount to be entered must not exceed the sale total unless the "Credit Balance" option is selected.

This key can be programmed with Amount Limit (max. 4-digit value). To override the programmed amount limit, the "MGR" position of the Mode Lock is required, but the [LC OPEN] key will not be effective.

Quantity extension using the [VND CPN] is not possible.

STR
CPN

STORE COUPON KEY ([STR CPN])

This is a non-motorized credit key to subtract a store coupon amount redeemed thorugh a department. Store coupon operations will net the department through which they are redeemed.

To operate, depress the [STR CPN] key either before or after the coupon amount entry, then depress the appropriate department key.

The [STR CPN] key does not have its own lisitng capaicty programmed, and thus it is ruled by each departemnt's HALC (High Amount Listing Capacity). The tax staus of the [STR CPN] key is usually ruled by the department status. However, it may be programmed to be always non-taxable regardless of the department status.

the store coupon amount must be entered inside a sale and must not exceed the sale total unless the "Credit Balance" option is selected.

The amount entered with the [STR CPN] key will subtract the Department Total memory, but does not affect the Department Item Counter memory.

Quantity extension will be permitted with this key, but no decimal quantity entry or split-pricing operation will be accepted. None of PLU, Void, and Returned Merchandise entries are possible with the [STR CPN] key.

VOID

VOID KEY ([VOID])

The [VOID] key is used to void an item entered previously (before the last item) within a sale, in which case the [ITEM CORR] key will not function.

To operate, depress the [VOID] key before or during a normal department or PLU entry sequence.

The [VOID] key may function to void a previous item through a positive department or a positive PLU, or a combination of "positive department/PLU plus [%+]/[%-]" entry, but not any other kind of items.

Unless the "Credit Balance" option is selected, voiding to result the sale total into negative will go into an error.

IC/VD

ITEM CORRECT / VOID KEY ([IC/VD])

This is a dual-function key that has both [ITEM CORR] and [VOID] key functions.

If depressed without a prior numeric entry after an item-correctable entry, it functions as the [ITEM CORR] key.

If depressed with a prior numeric value (PLU Code, price, amount, or quantity), it functions as the [VOID] key. In this case, it is recommended to always enter a numeric value before this key depression; otherwise, it will result in item-correct operation if the last line item is item-correctable.   Print Form

```
ex.) [DEPT 1] →  |200| [DEPT 2] → [IC/VD]
        |          |      |           |
      Preset     Price   Open    Functions as
      Dept.      $2.00   Dept.   [ITEM CORR].
      ($1.00)                    (Deletes Dept 2
                                 item, the last
                                 line item.)
        |          |      |      ┌─ 1 x Dept.1 ─┐
     [DEPT 1] → |200| [DEPT 2] → |1|[IC/VD][DEPT 1]
                                  |        |
                              Quantity
                              "1" for
                              multipli-
                              cation
                                       Functions
                                       as [VOID] Key
```

```
┌──────────────────┐
│ DP01       1.00  │
│ DP02──────2.00   │
└──────────────────┘
```

```
┌──────────────────┐
│ DP01       1.00  │
│ DP02       2.00  │
│ VOID 1 x   1.00@ │
│ DP         1.00- │
└──────────────────┘
```

FS/M

FOOD STAMP MODIFIER KEY ([FS/M])

This key has the same function as the TAX MODIFIER KEYS except that this key reverses the food stampable/non-stampable status of a Department, PLU, [%+], [%-], [DOLL DISC], or [VND CPN] item.

FSTL TEND

FOOD STAMP TOTAL READ / TENDER KEY ([FSTL TEND])

This is a multi-purpose function key associated with the food stamp tender operation.

FOOD STAMPABLE TOTAL READ

The first depression of this key without a prior amount entry displays the food-stampable tota, which indicates the maximum amount the customer may pay in food stamp.

FOOD STAMP TENDERING

Next, the food stamp amount tendered by the customer is entered and then the [FSTL TEND] key is depressed. If the food stamp amount tendered is equal to or larger than the food-stampable total and if there is no non-food-stampable amount is included in the sale (accurately, a maximum non-food-stampable amount of 99¢ may be included), the sale is finalized and a receipt is issued. If any non-food-stampable amount is included or the tendered food stamp

amount is short of the food-stampable total, the balance due is displayed, expecting for another tendering or totalling operation in other medias.

The change by the unit of $1.00 will be returned in food stamp, but the change portion less than $1.00 will be returned in cash.

When teh food-stampable total is zero or negative, depressing this key without numeric entry displays "0.00". In this case, an attempt of a food stamp tendering operation will result in an error.

There are three types of food stamp handlings regarding the tax payment system for the food stampable items, and the register has been programmed with the right type for each area:

1) GENERAL TYPE

The customer may pay up to the food-stampable amount plus the taxes due in food stamp. (The FOOD STAMPABLE TOTAL read in the display already includes the taxes due in this type.)

2) ILLINOIS TYPE

The customer may pay up to the food-stampable amount in food stamp, and the amount actually paid in food stamp is tax-exempted. (The FOOD STAMPABLE TOTAL read in the display does not include the taxes due in this type.)

3) TEXAS TYPE

The customer may pay up to the food-stampable amount in food stamp, but any taxes due must be paid in cash. (The FOOD STAMPABLE TOTAL read in the display does not include the taxes due in this type.)

The food stamp tendering operation, if it is necessary, must be performed before operating other media keys in finalizing a sale.

| CUR1 | CUR2 | **FOREIGN CURRENCY KEYS** ([CUR1], [CUR2]) |

These keys are used to read the sale total amount in foreign currencies and to declare tendering in the foreign currencies for finalizing the sale.

When a [CUR] key is merely depressed after the [TXBL TL] key (or the [ST] key with the "Taxable Total Display" option), the sale total exchanged into the foreign currency value is displayed. Then an amount tendered in that foreign currency may be entered through the numeric keys (displaying ithe amount in the foreign currency) and next the same [CUR] key will be depressed again to declare tendering, followed by a media key (usually [AT/TL] for cash payment). The change due is displayed and printed in the domestic currency value. If the tendered amount is short, the balance due is displayed in the

domestic currency value, and then multi-tendering with the same [CUR] key or split-tendering with the other [CUR] key as well as other media keys may follow to finalize the sale.

The sale total, tendered amount, and changes are all printed in the domestic value. But the following options are selective for foreign currency tendering operations:

. Foreign Currency Tendered Amount Print
. Exchange Rate Print
. Foreign Currency Zero-suppress Form (0.0 0 or _ _ 0.)

No-sale exchange from a foreign currency to the domestic currency is also possible when the register is in an out-of-sale condition. To operate, depress the required [CUR] key, enter the foreign currency amount (in that currency value), and finally depress the [NS] (or [#/NS]) key. The domestic currency value equivalent to the entered foreign currency amount is displayed, the drawer opens, and a receipt is issued. In the receipt, both the amount received in the foreign currency and the amount exchanged in the domestic currency are printed.

The fractions which results in foreign currency exchange sequences are rounded by the same system option designated for the Quantity Extension calculations (ROUND OFF, ROUND UP, or DISCARD).

The [CUR] keys cannot be used for payment entries of Received-on-Account or Paid-Out transactions.

REGISTERING PROCEDURE FOR SALES

The following are patterns for actual registering operations. In the following examples, "|__|" indicates an input through the numeric keys, "[ ]" indicates a depression of the transaction key, and "---" indicates other registering and/or finalizing operations.

One of the Clerk Keys must be set to its ON position to start operations. The Mode Lock should usually be set to the "REG" position using the REG Key. However, if the "MGR" Requirement" status is programmed on the transaction key or its operation sequence, the clerk must ask the store manager to turn the Mode Lock to the "MGR" position using the MGR or MA Key.

NO-SALE (Allowed only outside a sale)

    [NS] (or [#/NS])

DEPARTMENT ENTRY

    |PRICE| → [Open DEPT] → ---

    [Preset DEPT] → ---

    [PR OPEN] → |PRICE| [Preset DEPT] → ---

    NOTE: [LC OPEN] may be depressed either before or after the price entry but must be depressed before the department key.

PLU ENTRY

    |Preset PLU Code| [PLU] → ---
        1 to 999

    |Open PLU Code| [PLU] → |PRICE| [AMT] → ---

QUANTITY EXTENSION (MULTIPLICATION)

    |QUANTITY| [@/FOR] → [Preset DEPT] → ---
           └ May be omitted if the QUANTITY is a one-digit value.

    [PR OPEN] → |QUANTITY| [@/FOR] → ([LC OPEN]) → |PRICE| [Preset DEPT] → ---

    |QUANTITY| [@/FOR] → ([LC OPEN]) → |PRICE| [Open DEPT] → ---

    |QUANTITY| [@/FOR] → |Preset PLU Code| [PLU] → ---

    |Open PLU Code| [PLU] → |QUANTITY| [@/FOR] → |PRICE| [AMT] → ---

    NOTES: QUANTITY ... max. 3 integral digits + 3 decimal digits
           PRICE (Unit Price) ... max. 6 digits
           PRODUCT ... must not exceed 7 digits

SPLIT PACKAGE PRICING

|PURCHASED Q'TY|[@/FOR]→|WHOLE PACKAGE Q'TY|[@/FOR]→[Preset DEPT]→ ---

|PURCHASED Q'TY|[@/FOR]→|WHOLE PACKAGE Q'TY|[@/FOR]⌐
                                      ⌐→|WHOLE PACKAGE PRICE|[Open DEPT]→ ---

|PURCHASED Q'TY|[@/FOR]→|Split-Price Type PLU Code|[PLU]→ ---
                              (Preset PLU)

|Split-Price Type PLU Code|[PLU]→|PURCHASED Q'TY|[@/FOR]⌐
   (Open PLU)
                             ⌐→|WHOLE PACKAGE PRICE|[AMT]→ ---

NOTES: 1. The PURCHASED Q'TY and WHOLE PACKAGE Q'TY must be of integral value (max. 3 digits); no decimal value is allowed.
2. Usually, the fraction of the result is rounded up in split-pricing operation. However, it is programmable to round up the fraction of each item price (item price = WHOLE PACKAGE PRICE ÷ WHOLE PACKAGE Q'TY).
3. Among PLUs, only the "Split-Price Type" PLUs allow split pricing operations, but not other ordinary type of PLUs.
4. If the "|PURCHASED Q'TY|[@/FOR]" sequence is skipped in the above operation patterns, the sale of one item (not the whole package) will be registered, as to Split-Price Type PLUs.

SINGLE-ITEM DEPARTMENT OR PLU ENTRY

The operation patterns in DEPARTMENT ENTRY, PLU ENTRY, QUANTITY EXTENSION, and SPLIT PACKAGE PRICING are applied. When a single-item department or PLU is entered, the sale is immediately finalized as a cash payment without operating any media keys.

The following operations are not possible with a single-item department or PLU:
        REPEAT ENTRY, [%+], [%-], [DOLL DISC], [VND CPN], [ITEM CORR], [TAX], [EX], [ST], [TXBLE TL], media keys

REPEAT ENTRY (examples to enter three of the same items)

[Preset DEPT] → [Same DEPT] → [Same DEPT] → ---

|PRICE|[Open DEPT] → [Same DEPT] → [Same DEPT] → ---

|Preset PLU Code|[PLU] → [PLU] → [PLU] → ---

|Open PLU Code|[PLU] → |PRICE|[AMT] → [AMT] → [AMT] → ---

NOTE: A Split-Price Type PLU cannot be repeated.

TAX STATUS MODIFICATION (TAXABLE/NON-TAXABLE STATUS REVERSING)
FOOD STAMP STATUS MODIFICATION (FOOD STAMPALBE/NON-STAMPABLE STATUS REVERSING)

Depress [TX/M] (for tax status reversing in Single-tax Area), or
        [TX1/M] (for Tax 1 status reversing in Multi-tax Area) and/or
        [TX2/M] (for Tax 2 status reversing in Multi-tax Area) and/or
        [TX3/M] (for Tax 3 status reversing in Multi-tax Area).

Depress [FS/M] (for Food Stamp status reversing)

   before or any time during the following operation patterns (but must
   be depressed before the final key of the sequence):

        DEPARTMENT ENTRY (page 23)
        PLU ENTRY (page 23)
        QUANTITY EXTENSION (page 23)
        SPLIT PACKAGE PRICING (page 24)
        SINGLE-ITEM DEPARTMENT OR PLU ENTRY (page 24)
        REPEAT ENTRY (page 24)
        RETURN MERCHANDISE (this page)
        PERCENT CHARGE (page 26)
        PERCENT DISCOUNT (page 26)
        DOLLAR DISCOUNT (page 25)
        VENDOR COUPON (page 25)
        STORE COUPON (page 25)

RETURNED MERCHANDISE

   Depress [RTN MDSE] before or any time during the following operation
   patterns (but must be depressed before the final key of the sequence):

        DEPARTMENT ENTRY (page 23)
        PLU ENTRY (page 23)
        QUANTITY EXTENSION (page 23)
        SPLIT PACKAGE PRICING (page 24)
        SINGLE-ITEM DEPARTMENT OR PLU ENTRY (page 24)

VENDOR COUPON

   --- → |COUPON AMOUNT| [VND CPN] → ---   (Quantity Extension not allowed)

STORE COUPON

   Follow the operation sequences of DEPARTMENT ENTRY (page 23) and QUANTITY
   EXTENSION (page 23), and depress [STR CPN] anywhere before or during the
   sequence but it must be depressed before the final key of each sequence.

DOLLAR DISCOUNT

   --- → |DISCOUNT AMOUNT| [DOLL DISC] → ---

PERCENT DISCOUNT

(1) To discount from the subtotal:

--- → [ST] → [%-] → --- ... to discount by the preset rate

--- → [ST] → |RATE|[%-] → --- ... to discount by a manual rate

(2) To discount from an individual department item:

(|PRICE|) → [DEPT] → [%-] → --- ... to discount by the preset price

(|PRICE|) → [DEPT] → |RATE|[%-] → --- ... to discount by a manual rate

NOTES: 1. The rate may be entered within the range from 0.001 to 99.999%.
If the rate contains the decimal point, use the [.] key.
2. The above department entry sequences may be replaced by PLU
entry sequences.

PERCENT CHARGE

This operates the same as in the PERCENT DISCOUNT operations above,
except that the [%+] key is used instead of the [%-] key.

ITEM CORRECT (Last Line Voiding)

Use [ITEM CORR or [IC/VD] after each of the sequence listed below.

```
DEPARTMENT ENTRY (page 23) ──────────────────→
PLU ENTRY (page 23) ─────────────────────────→
QUANTITY EXTENSION (page 23; NOTE 1 below) ──→
SPLIT PACKAGE PRICING (page 24; NOTE 1 below) →
REPEAT ENTRY (page 24; NOTE 2 below) ────────→
DOLLAR DISCOUNT (page 25) ───────────────────→       → [ITEM CORR] → ---
VENDOR COUPON (page 25) ─────────────────────→          (or [IC/VD])
STORE COUPON (page 25) ──────────────────────→
RECEIVED-ON-ACCOUNT Item: |AMOUNT|[R/A] ─────→
PAID-OUT Item: |AMOUNT|[PO] ─────────────────→
MANUAL TAX: |AMOUNT|[TAX] ───────────────────→
```

NOTES: 1. When [ITEM CORR] is depressed after a QUANTITY EXTENSION or
SPLIT PACKAGE PRICING sequence, the entire product resulted
from the calculation will be deleted.
2. When [ITEM CORR] is depressed after a REPEAT ENTRY sequence,
only the last item of the repeated will be deleted.
3. A negative department/PLU item or a Returned Merchandise item
can not be deleted by the [ITEM CORR] key.

VOID (Designated Line Voiding)

Follow the operation sequences of DEPARTMENT ENTRY (page 23), PLU ENTRY
(page 23), QUANTITY EXTENSION (page 23), and SPLIT PACKAGE PRICING (page
24); and depress [VOID] anywhere during the sequence (not necessarily at

the starting) but it must be depressed before the final key of each sequence.

Designated Line Voiding is also possible for a Department or PLU item plus %+ or %- item sequences, if [VOID] is depressed at least before the [DEPT] key (for Department Entry), [PLU] (for Preset PLU Entry), or [AMT] (for Open PLU Entry).

NOTE: The [IC/VD] key will function the same as the [VOID] key except that:
1) [VOID] may be depressed before or after a numeric entry if depressed before the motorized key (key to cause the line item print), however,
2) [IC/VD] should only be depressed <u>after a numeric entry</u>. If depressed at the top without a prior numeric entry, it may item-correct the last item just entered. In voiding a preset department entry, for example, the quantity must be entered first (if an ordinary entry, the quanity will be "1"), next depress [IC/VD], and then the [Preset DEPT] key.

<u>EXAMPLES OF DESIGNATED LINE VOIDING USING [IC/VD]</u>

|1| → [IC/VD] → [Preset DEPT] → ---
└ Quantity "1" of multiplication

|<u>PRICE TO BE VOIDED</u>| → [IC/VD] → [Open DEPT] → ---

|<u>Preset PLU Code</u>| → [IC/VD] → [PLU] → ---

|<u>Open PLU Code</u>| → [IC/VD] → [PLU] → |<u>PRICE TO BE VOIDED</u>| → [AMT] → ---

NON-ADD NUMBER PRINT

(--- →) |<u>NUMBER, 8 digits maximum</u>| [#] (or [#/NS]) → ---

CHECK CASHING (Allowed only outside a sale)

|<u>AMOUNT OF CHECK TO BE CASHED</u>| → [CHK TND]

       ... The drawer opens and a receipt is issued. Receive the check and pay the amount in cash to the customer.

NOTES: 1. Check cashing may be programmed to be prohibited.
2. The [Chg] key may also be operated for cashing if so programmed.

SUBTOTAL READ, TAXABLE TOTAL READ

<u>When "[ST] Key Display Taxable Total" Option is not selected:</u>

--- → [ST] → --- ... The subtotal of the items (sale total not including taxes) entered so far is displayed and printed, but the sale is not finalized. (May not be printed if so programmed.)

--- → [TXBL TL] → --- ... The taxable total of the items (sale total including taxes) entered so far is displayed but not printed, and the sale is not finalized.

<u>When "[ST] Key Display Taxable Total" Option is selected:</u>

--- → [ST] → --- ... The taxable total of the items (sale total plus taxes) entered so far is displayed, while the subtotal (sale total not including taxes) is printed; and the sale is not finalized. (May not be printed if so programmed.)

NOTE: If the [C] key is depressed to clear an error or a numeric entry after once obtaining a subtotal or taxable total, the subtotal or taxable total amount will again be displayed.

MANUAL TAX ETNRY

--- → |TAX AMOUNT TO BE ADDED| [TAX] → ---

NON-TAXABLE ITEM TOTAL READ

--- → [TAX] → --- ... The total amount of the non-taxable item(s) so far entered within the sale is displayed. It is usually not printed, but programmable to print also.

TAX EXEMPTION

--- → [TX1/M] → [EX] ... to exempt Tax 1 only
--- → [TX2/M] → [EX] ... to exempt Tax 2 only
--- → [TX3/M] → [EX] ... to exempt Tax 3 only
--- → [TX1/M][TX2/M] → [EX] ... to exempt Tax 1 and Tax 2
--- → [TX2/M][TX3/M] → [EX] ... to exempt Tax 2 and Tax 3
--- → [TX1/M][TX3/M] → [EX] ... to exempt Tax 1 and Tax 3
--- → [EX] ... to exempt all the taxes (or all the Tax Modifier Keys may be depressed before [EX].)

Displays the post-tax-exempted sale total while printes the sale amount portion subject to the tax exemption. The above operation must always be followed by the sale finalization.

FOOD STAMPABLE TOTAL READ, FOOD STAMP TENDERING

```
--- → [FSTL TEND] → |Food Stamp Tendered Amount| [FSTL TEND] → ---
             |       └─────────────────────────────────────┘
        Displays the           Tendering in Food Stamp
        food-stampable    (This must be operated first of all the
        total.            payments in finalizing the sale, if food
                          stamps are part of the payment.)
```

SALE FINALIZATION BY OTHER MEDIA KEYS

```
---→([ST] or [TXBL TL]) ──────────────────────────────→ [AT/TL]
                        ┌──────────────────────────┐    (cash)
                        │   finalize without tendering ↑→ [CHK TND]
                        │                          │    (check)
                        │  with tendering          │  → [Chg]
                        └→ |Tendered Amount| ───────┘    (charge)
```

NOTE: Whether each Media Key is depressed with a prior tendered amount
      entry or not is determined by the option selected for each media
      key. If the sale total is "0" or negative, any media key must be
      depressed without a tendered amount entry even if the key is
      programmed as a "Tender" key. Each of the non-cash media keys may
      be programmed to prohibit Negative Sale Finalization,
      Over-tendering, and/or Short-tendering.

MULTI-TENDERING ... Short-tendering repeated multiple times by the same media
                    (allowed only when the media key is programmed to allow
                    short-tendering.)

```
ex.)
--- → ([TXBL TL]) → |AMOUNT TENDERED| [CHECK] ┐
      or [ST]     ┌─────────────────────────────┘
                  └→ |AMOUNT TENDERED| [CHECK] ┐
                  ┌───────────────────────────┘
                  └→ |AMOUNT TENDERED| [CHECK]
```

NOTE: The [CHECK] key may be replaced by the [AT/TL] or other media keys
      if it is programmed to allow short-tendering.

SPLIT-TENDERING ... Short-tendering repeated multiple times by different media
                    keys (allowed only when the media keys are programmed to
                    allow short-tendering.)

```
ex.1)
--- → ([TXBL TL]) → |CHECK AMOUNT TENDERED| [CHECK] ┐
      or [ST]     ┌──────────────────────────────────┘
                  ├→ (|CASH AMOUNT TENDERED|) [AT/TL] ... Check & Cash
                  │
                  ├→ [Chg] ... Check & Charge
                  │
                  └→ |CASH AMOUNT TENDERED| [AT/TL] → [Chg]
                                    ... Check, Cash, & Charge
```

ex.2)
--- → ([TXBL TL]) → |CASH AMOUNT TENDERED|[AT/TL] → [Chg] ... Cash & Charge
    or [ST]

ex.3)
--- → ([TXBL TL]) → [FSTL TEND] |FOOD STAMP AMOUNT TENDERED|[FSTL] ⌐
    or [ST]
            ↳ (|CASH AMOUNT TENDERED|) [AT/TL] ... Food Stamp & Cash
            ↳ |CHECK AMOUNT TENDERED| [CHECK] ... Food Stamp & Check
            ↳ [Chg] ... Food Stamp & Charge

There are many more combinations of medias.

NOTES: 1. In both MULTI-TENDERING and SPLIT-TENDERING operations, the
          sale is finalized, a receipt is issued, and the drawer opens on
          reaching the sale total amount.
       2. If a media key is depressed without an amount tender entry (fi
          the key functions as "Total" key), the sale is then finalized
          on that stage processing all the balance into that media.

FOREIGN CURRENCY TENDERING

--→ [TXBL TL] or [ST] → [CUR1] → |Amount Tendered|[CUR1] → Finalizing with
                                 |in Foreign Cur.1| media key(s)

Displays the sale   Displays the   Displays as   Displays   Displays the
total in the   equivalent   it is   the   balance due or
domestic   value in   entered in   tendered   change due in
currency.   Foreign   the foreign   value in   the domestic
                    Currency 1.   currency.   the   currency.
                                                   domestic
                                                   currency.

NOTES: 1. The [CUR2] key operates the same as the [CUR1] key, except that
          each of these keys has a different exchange rate programmed
          from the other.
       1. If short-tendered with a foreign currency, multi-tendering or
          split-tendering is then possible.

FOREIGN CURRENCY EXCHANGE INTO DOMESTIC CURRENCY WITH NO PURCHASE

[CUR1] or [CUR2] → |Foreign Currency Amount| → [NS] (or [#/NS])

The point or   Displays the Foreign   Displays the domestic
comma position   Currency value entered.   currency value exchanged
moves to the   from the foreign currency
position for   amount.
the designated   A receipt is issued and
foreign currency.   the drawer opens.

(This operation mus be done outside a sale.)

RECEIVED ON ACCOUNT (Allowed only outside a sale)

|AMOUNT OF PAYMENT| [R/A] → ([ST]) ┬→ (|CASH AMOUNT TENDERED|) [AT/TL]
                                    │   (if paid in cash)
                                    ├→ (|CHECK AMOUNT TENDERED|) [CHK TND]
                                    │   (if paid in check)
                                    └→ (|CHARGE AMOUNT TENDERED|) [Chg]
                                                   (if paid in charge)

Repeatable if multiple
amounts are received in
one transaction.

NOTES: 1. Each of the [CHK TND] and [Chg] keys may not be used for
          finalizing R/A entries if programmed to be so prohibited.
       2. MULTI-TENDERING and SHORT-TENDERING are appliecable to the
          finalization of received-on-account payments.

PAID OUT (Allowed only outside a sale)

|AMOUNT TO BE PAID OUT| [PO] → ([ST]) ——→ [AT/TL]

Repeatable if multiple amounts
to be paid out are recorded
in one transaction.

(The [AT/TL] key is the only
media key that can finalize
paid-out items. That is,
only cash may be paid out.)

ENTRY IN THE " [-] " (NEGATIVE) MODE (Mode Lock : [-])

When several items are returned at a time, turn the Mode Lock to the [-]
position (using the MA key kept by the store manager). Now enter each
item just as in the normal registering operation in the "REG" mode. The
[-] position of the Mode Lock processes the entered items exactly in the
reerse way, i.e., positive items into negative, and negative into
positive.

RECEIPT POST-ISSUE (Allowed only outside a sale)

[RECEIPT ISSUE] ... A receipt with the total amount of the last-finalized
                    sale is issued. A program option provides a
                    selection not to issue the post-receipt if the last
                    sale has been finalized with the [RECEIPT ON/OFF]
                    switch positioned to ON.

                    On a post-issued receipt, the sale total but not
                    detail items of the last sale will be printed.

                    When another sale is already under way on the
                    register, the [RECEIPT ISSUE] key will not function
                    any more for the last-finalized sale.

VALIDATION PRINT

After entering the required item thorugh a transaction key or media key. ——→ Insert a validation slip into the validation slot. Make sure that the "SLP" lamp is steadily lit. ——→ [VALIDATE]
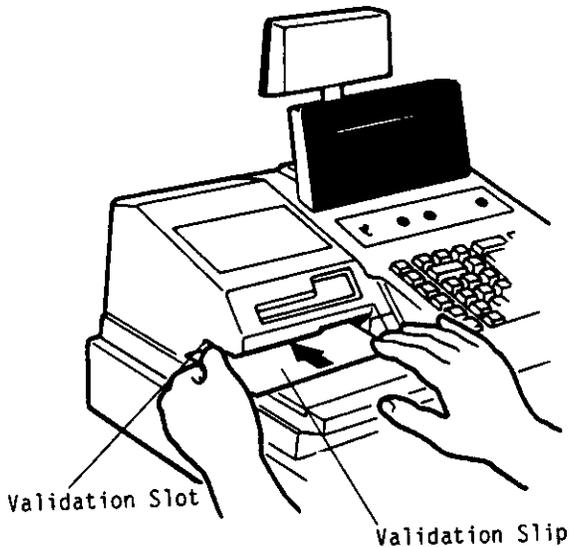
NOTES: 1. No other operations can follow until the validation slip once printed is withdrawn.
2. If the "SLP" lamp flickers during registrations, it indicates that the last item just registered has been programmed to require validation print. In this case, no other operations can follow until the validation print of the item is executed.
3. The following are the programmable selections relating to validation:
   (1) PRINT FORMAT
       a) Date Print/Non-print
       b) Consecutive No. Print/Non-print
   (2) MULTI- or SINGLE-VALIDATION
       (Number of times of validation print allowed for the same item)
   (3) VALIDATION COMPULSORY status on the following keys:
       [AT/TL], [CHK TND], [Chg], [RTN MDSE], [DOLL DISC], [%-], [VND CPN], [STR CPN], [ITEM CORR], [VOID], [FSTL TEND], Negative Departments/PLUs
4. As printing occurs on the bottom side of the paper, please certain to insert the slip into the validation slot <u>with the printing side downward</u>.

Validation Slot

Validation Slip

REGISTERING RECEIPT SAMPLES

NO-SALE

Thank you
Call again

THANK   YOU

02-05-87   #123456

****NOSALE****

JONES   0002 11:53TM

- Store Name/Message Stamp
- 3-line Commercial Message
- Date
- Store/Register No.
- No-sale Symbol
- Clerk Name
- Current Time
- Rceipt Consecutive No.

CHECK CASHING, NON-ADD NUMBER

Thank you
Call again

THANK   YOU

02-05-87   #123456

#12345678
CHECK   5.00

JONES   0003 11:53TM

- Non-add Number
- Check Amount Cashed

RECEIVED ON ACCOUNT

Thank you
Call again

THANK   YOU

02-05-87   #123456

R/A   7.00
R/A   6.50
CASH   13.50

JONES   0004 11:54TM

- R/A item
- R/A item
- R/A Total received in cash

PAID OUT

Thank you
Call again

THANK   YOU

02-05-87   #123456

PO   5.00
PO   6.00
TL   11.00

JONES   0005 11:54TM

- Paid-Out item
- Paid Out item
- Paid-Out Total

DEPARTMENT ENTRY, REPEAT, QUANTITY EXTENSION

```
      Thank you
      Call again


        THANK   YOU


   02-05-87    #123456

   DP01          1.20  T        Taxable Item Symbol
                                Food Stampable Item
   DP01          1.20  T        Symbol
   DP06          2.30  F   ]Dept.1 Entry
   DP06          2.30  F   ]Dept.2 Repeat
         5X      0.75  a                  Entries
                             ─┐Dept.5
   DP05          3.75  F     ─┘Quantity Extension
   TAX           0.12         Tax due
   CASH          9.67         Sale Total finalized
                              as cash
                              Total Item Count
   ITEM    8                  of this sale.
   JONES     0006 11:54TM
```

PLU ENTRY, REPEAT, QUANTITY EXTENSION

```
      Thank you
      Call again


        THANK   YOU


   02-05-87    #123456

   PLU005        1.00  TF   ] PLU No.5
   PLU005        1.00  TF   ]   Repeat Entries
         6X      0.70  a    ] PLU "SUGAR"
   SUGAR         4.20  TF   ]   Quantity Extension
   TAX           0.62
   CASH          6.82

   ITEM    8
   JONES     0007 11:55TM
```

Split Package Pricing

```
      Thank you
      Call again


        THANK   YOU


   02-05-87    #123456

         3X      2.00/  5   ] 3 out of 5 ($2.00)
   DP02          1.20  T    ] = $1.20 into Dept2
         4X      2.30/  6   ] 4 out of 6 ($2.30)
   PLU020        1.54  T    ] = $1.54 into PLU20
   TAX           0.27
   CASH          3.01

   ITEM    7
   JONES     0008 11:56TM
```

DOLLAR DISCOUNT

```
      Thank you
      Call again


        THANK   YOU


   02-05-87    #123456

   DP01          4.50  T
   DISC          0.50-         Discount Amount
   TAX           0.45
   CASH          4.45

   ITEM    1
   JONES     0009 11:57TM
```

```
      Thank you
      Call again


        THANK   YOU


     02-05-87    #123456

   DP05          6.50  F
   V.CPN         2.00-
   CASH          4.50

   ITEM     1
   JONES    0010 11:57TM
```

Vendor Coupon $2.00

```
      Thank you
      Call again


        THANK   YOU


     02-05-87    #123456

   DP02          7.60  T
   S.CPN
   DP02          1.00-T
   TAX           0.66
   CASH          7.26

   ITEM     1
   JONES    0011 11:58TM
```

] Store Coupon $1.00
  through Dept.2

```
      Thank you
      Call again


        THANK   YOU


     02-05-87    #123456

   RETURN
   DP06          2.30-  F
   RETURN
   PLU005        1.00-TF
   RETURN
           3X    0.50  @
   DP02          1.50-T
   TAX           0.25-
   CASH          5.05-

   ITEM    -5
   JONES    0012 11:58TM
```

] Dept item
     returned

] PLU item
     returned

─┐Dept item returned
 │with Quantity
─┘   Extension

```
      Thank you
      Call again


        THANK   YOU


     02-05-87    #123456

   COFFEE        1.00  TF
   %-
          10%    0.10-
   PLU005        1.50  TF
   SUBTL         2.40
   %+
          15%    0.36
   TAX           0.25
   CASH          3.01

   ITEM     2
   JONES    0013 11:59TM
```

]10% discount from the
 above "COFFEE" item.

] 15% charge on the
    subtotal amount

```
Thank you
Call again


   THANK   YOU


02-05-87    #123456

DP01           2.30 T
DP03---------0.50-TF
VOID
DP01           2.30-T
CASH           0.00


ITEM     0
JONES   0014 11:59TM
```

Dept.3 item corrected
The fist line Dept.1
item is voided.

Food Stamp and Cash

```
Thank you
Call again


   THANK   YOU


02-05-87    #123456

DP01           5.60 T
PLU005         1.00 TF
TAX            0.66
TL             7.26
FS/TL          1.10
F-STMP         1.10
CASH           6.16


ITEM     2
JONES   0016 12:46TM
```

Sale Total
Food Stampable Total
Food Stamp Amount Tendered
The balance due paid in
                        cash

TAX EXEMPTION

```
Thank you
Call again


   THANK   YOU


02-05-87    #123456

DP01           1.00 T
DP05           1.00  F
TAX1EX         1.00
CASH           2.00


ITEM     2
JONES   0015 12:00TM
```

Sale Portion subject
to Tax Exemption

Charge Total

```
Thank you
Call again


   THANK   YOU


02-05-87    #123456

DP01           5.60 T
PLU005         1.00 TF
TAX            0.66
Chg            7.26


ITEM     2
JONES   0017 12:48TM
```

Finalized as
        Charge Sale

Cash Tender

Thank you
Call again

THANK YOU

02-05-87   #123456

DP01	5.60 T
PLU005	1.00 TF
SUBTL	6.60
TAX	0.66
TL	7.26	Sale Total
CATEND	8.00	Cash Tendered
CHANGE	0.74	Change due

ITEM   2
JONES   0018 12:48TM

Check Tender

Thank you
Call again

THANK YOU

02-05-87   #123456

DP01	5.60 T
PLU005	1.00 TF
SUBTL	6.60
TAX	0.66
TL	7.26	Sale Total
CHECK	8.00	Check Tendered
CHANGE	0.74	Change due

ITEM   2
JONES   0019 12:49TM

Multi-tender

Thank you
Call again

THANK YOU

02-05-87   #123456

DP01	5.60 T
PLU005	1.00 TF
TAX	0.66
TL	7.26	Sale Total
CATEND	3.00	1st cash-tendered
CATEND	4.00	2nd cash-tendered
CASH	0.26	The balance due is
		also paid in cash.

ITEM   2
JONES   0022 12:52TM

Split-tender

Thank you
Call again

THANK YOU

02-05-87   #123456

DP01	5.60 T
PLU005	1.00 TF
TAX	0.66
TL	7.26	Sale Total
CHECK	3.00	Check-tendered Portion
CATEND	4.00	Cash-tendered Portion
Chg	0.26	The balance due is
		paid as Charge Sale

ITEM   2
JONES   0023 12:52TM

Foreign Currency 1

```
      Thank you
      Call again


      THANK  YOU


   02-05-87    #123456

   DP01         5.60 T
   SUBTL        5.60
   TAX          0.56
   TL           6.16
   CUR1        11.42
       1.8543x
   CATEND       6.16
   CHANGE       0.00

   ITEM    1
   JONES   0031 12:59TM
```

Sale Total
CUR1-tender amount ⌐*
 "   exchange rate ⌐*
Tender Value calcu-
   lated in
   Domestic Currency

* ... Option Print

Foreign Currency 2

```
      Thank you
      Call again


      THANK  YOU


   02-05-87    #123456

   DP01         5.60 T
   SUBTL        5.60
   TAX          0.56
   TL           6.16
   CUR2         939
       1.525x
   CATEND       6.16
   CHANGE       0.00

   ITEM    1
   JONES   0032 13:00TM
```

Sale Total
CUR2-tender amount ⌐*
 "   exchange rate ⌐*
Tender Value calculated in
   Domestic Currency

* ... Option Print

Foreign Currency and Domestic Currency Split-tender

```
      Thank you
      Call again


      THANK  YOU


   02-05-87    #123456

   DP01         5.60 T
   SUBTL        5.60
   TAX          0.56
   TL           6.16
   CUR1        10.00
       1.8543x
   CATEND       5.39
   CASH         0.77

   ITEM    1
   JONES   0033 13:01TM
```

Sale Total
⌐Foreign Cur.
│Tendered
─┘
The Balance due is
paid in domestic
currency.

FOREIGN CURRENCY EXCHANGE INTO DOMESTIC CURRENCY WITH NO PURCHASE

```
      Thank you
      Call again


      THANK  YOU


   02-05-87    #123456

   ****NOSALE****
   CUR2        1,000
       1.525x
   CHANGE       6.56

   JONES   0034 13:02TM
```

Amount of the foreign cur.
Exchange Rate

Domestic Cur. Amount to
   be exchanded.

NEGATIVE MODE (|-|) ENTRY

ex.) A customer who once purchased items listed in the left receipt comes up to return all the items. The clerk asks the store manager to turn the Mode Lock to |-| position, and registers all the items, one by one, tracing the customer's receipt or returned items. The contents of the two receipts are same except that the Negative Mode Header is printed on the right one. The total amount in the right-side receipt indicates the amount to be refunded to the customer.

Receipt issued in REG or MGR mode

```
     Thank you
     Call again


      THANK   YOU


    02-05-87    #123456

    COFFEE        1.00 TF
          3X      2.00  @
    PLU005        6.00 TF
    DISC          0.30-
    SUBTL         6.70
    %-
          10%     0.67-
    TAX           0.70
    CASH          6.73

    ITEM    4
    JONES    0038 13:05TM
```

Receipt issued in |-| mode

```
     Thank you
     Call again


      THANK   YOU


    02-05-87    #123456

    xxxxREG--        xxxx    ──Negative Mode Header
    COFFEE        1.00 TF
          3X      2.00  @
    PLU005        6.00 TF
    DISC          0.30-
    SUBTL         6.70
    %-
          10%     0.67-
    TAX           0.70
    CASH          6.73

    ITEM    4
    JONES    0039 13:06TM
```

Ordinary Receipt (to be issued on finalization of a sale)

```
        Thank you
        Call again


        THANK   YOU


      02-05-87    #123456

      DP05          2.20  F
      SUGAR         0.70 TF
      TAX           0.07
      TL            2.97
      CHECK         5.00
      CHANGE        2.03


      ITEM    2
      JONES    0041 13:09TM
```

Post-issued Receipt (for the last-finalized sale,
                        issued by
                        [RECEIPT ISSUE] key)

```
        Thank you
        Call again


        THANK   YOU


      02-05-87    #123456

      TL            2.97

      JONES    0041 13:09TM
```

Only the Sale Total
line will be printed,
but not detail line
items.

RECEIPT PRINT   VALIDATION PRINT

Consecutive No.

Date

Clerk ID   Item   Amount

02-05-87 1CL0042   DP01   1.00 T

Thank you
Call again

THANK   YOU

02-05-87 1CL0042 %-   15%   0.15-

02-05-87   #123456

DP01   1.00 T
%-
        15%   0.15-
        1X   2.30/ 6   02-05-87 1CL0042   FLU020   0.39 T
FLU020   0.39 T
SUBTL   1.24
TAX   0.14
TL   1.38
CHECK   2.00
CHANGE   0.62   *
                                 02-05-87 1CL0042   TXBLTL   1.38

ITEM   2
JONES   0042 13:11TM

*NOTE: Validation after
     [TXBL TL] Key or
     [ST] Key (with "Taxable
     Total Display" option).   02-05-87 1CL0042   CHECK   2.00

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RECEIPT PRINT   VALIDATION PRINT

Thank you
Call again

THANK   YOU

02-05-87   #123456

#11223344
CHECK   8.00

JONES   0043 13:14TM

→ 02-05-87 1CL0042   #11223344

→ 02-05-87 1CL0043   CHECK   8.00

THANK   YOU

02-05-87   #123456

R/A   3.00
R/A   7.50
CASH   10.50

JONES   0044 13:15TM

→ 02-05-87 1CL0044   R/A   3.00

→ 02-05-87 1CL0044 R/A   CASH   10.50

THANK   YOU

02-05-87   #123456

PO   6.00
PO   4.00
TL   10.00

JONES   0045 13:16TM

→ 02-05-87 1CL0045   PO   6.00

→ 02-05-87 1CL0045 PO   TL   10.00

READ (X) AND RESET (Z) REPORTS

The following table shows the key operation to take each report. The "X" and "Z" reports have exactly the same print content if both are available, except that:

1. The "X" report allows to read the totals but not clear memories, while the "Z" report allow to read the totals and at the same time all the resettable memories will be cleared when the report has been issued.

2. The symbol "X" is printed as the header of a "X" report, while "Z" is printed on a "Z" report, to indicate the type of report.

3. A reset count is printed near the bottom of a "Z" report only.

TABLE OF OPERATIONS FOR X AND Z REPORTS

REPORT NAME	KEY OPERATION	SAMPLE PAGE
* AUTO READ * AUTO RESET	Mode Lock: X Mode Lock: Z] [AT/TL]	44
ZONE PLU READ ZONE PLU RESET	Mode Lock: X Mode Lock: Z] |Zone-start PLU Code| ↓ [X] ↓ |Zone-end PLU Code| ↓ [PLU]	46
ALL PLU READ ALL PLU RESET	Mode Lock: X Mode Lock: Z] [PLU]	46
* INDIVIDUAL CLERK READ * INDIVIDUAL CLERK RESET	Mode Lock: X Mode Lock: Z] Set the Clerk Key of the required clerk to ON, 1 [AT/TL]	47
* IN-DRAWER READ	Mode Lock: X [#] (or [#/NS]	48
HOURLY READ HOURLY RESET	Mode Lock: X Mode Lock: Z] 10 [AT/TL]	48
* GT READ * GT RESET (Accumulated Sales Data to be reset on a weekly or monthly basis but not daily.)	Mode Lock: X Mode Lock: Z] 20 [AT/TL]	49

NOTES: 1) The cash drawer will open on the depression of the final key of the KEY OPERATION for the reports marked with "*".

2) No clerk key is necessary to issue any of the reports except INDIVIDUAL CLERK READ/RESET reports.

3) Refer to the report samples on the following pages. The descriptor of each line may vary according to the programmed data of each store, and some of the counter or total lines may not be printed by print/non-print options.

4) As for the PRESET DATA VERIFICATION operations and print samples which are also available in the "X" mode, see the "VERIFICATION OF PROGRAMMED DATA" in the PROGRAMMING MANUAL separately issued.

Reset Report Sample
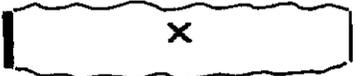
```
      Thank you
      Call again


      THANK  YOU


  02-05-87   #123456

          Z
  GT
              168.59
  GS             72
              168.59
  DP01           19
      20CU     91.91
  DP02            9
         4CU
  DP07            0
         0CU    0.00
  DP08            0
         0CU    0.00
  %+              1
               0.36
  NS             54
              135.70
  TAX1          11.79
  NS             54
              147.49
  %-              1
               0.19
  V.CPN           1
               2.00
  DISC            2
               0.80
  TOTAL        29CU
              144.50
  CASH         23CU
              115.11
  CHECK         4CU
               20.77
  Chg           2CU
               7.52
  FS TL         0CU
               1.10
  -- To be continued --
```

Reset Symbol ⟵⟶ Read Symbol

Grand Total (non-resettable)

Gross Sale Item Count
                Amount total

Department 1 Item Count
     Customer Count / Total

⋮

⋮

Percent Charge Count
                Total

Net Sale (Without Tax) Item Count
                        Total

Tax 1 Total (Tax 2 and Tax 3 are also printed in multi-tax areas.)

Net Sale (With Tax) Item Count
                Total

Percent Discount (on Subtotal) Count
                            Total

Vendor Coupon Count
                Total

Dollar Discount Count
                Total

All Media Sales Total Customer Count
                    Total Amount

Cash Sales Customer Count
                Amount

Check Sales Customer Count
                Amount

Charge Sales Customer Count
                Amount

Food Stamp Sales Customer Count
                Amount

R/A	4	Received-on-Account Count
	24.00	Total
PO	4	Paid-Out Count
	21.00	Total
CAID	60.83	Cash-in-drawer Total
CKID	6	Check-in-drawer Count
	31.00	Total
FSID	1	Food Stamp-in-drawer Count
	1.10	Total
FS CG	0.00	Food Stamp Change Amount
CORR	2	Item Correction (on positive Department/PLU items) Count
	1.50	Total
VOID	1	Void (Designated Line Voiding) Count
	2.30	Total
MS VD	0	Misc Void (Item Correct on other items) Count
	0.00	Total
%-	2	Percent Discount (on Department/PLU item) Count
	0.25	Total
S.CPN	1	Store Coupon Count
	1.00	Total
-DP TL	0	Negative Departments Total Item Count
	0.00	Amount
RETURN	5	Returned Merchandise Item Count
	4.80	Total
-TAX	0.25	Negative (or Returned) Tax Total
REG-	2	Negative Mode Count
	11.00	Total
TXBL1	117.84	Taxable 1 Total
TAX EX	1CU	Tax-exempted Customer Count
TAX1EX	1.00	Sale Total Portion of Tax 1 Exempted
CUR1	5	Foreign Currency 1 Count
	59.76	Total (in that currency unit value)
CUR2	4	Foreign Currency 2 Count
	2,260	Total (in that currency unit value)
NOSALE	5	No-sale Count
VALCTR	11	Validation Count

JONES
0001Z

INDIVIDUAL CLERK REPORTS & EACH CLERK RESET COUNT
 (If the clerk's INDIVIDUAL CLERK RESET report has already been
  taken before this AUTO RESET report, only the clerk's name and
  the reset count are printed. Otherwise, each clerk reset report
  data will be printed here.)

SMITH
0000Z

3CL
0000Z

4CL
0000Z

0001Z   Auto Reset Count (not print in AUTO READ reports)

0056 13:21TM

ZONE PLU READ OR RESET REPORT

```
Thank you
Call again


   THANK   YOU


02-05-87    #123456

          X
PLU005           6
PLU005        9.50

JONES    0047 13:18TM
```

$\left(\begin{array}{l}\text{Mode Lock: X for Read} \\ \text{Mode Lock: Z for Reset}\end{array}\right]$ Enter the Zone-start PLU Code
↓
Depress [@/FOR].
↓
Enter the Zone-end PLU Code.
↓
Read Report Sample   Depress [PLU].

Sample Operation:
    Mode Lock: X, 1 [@/FOR] 10 [PLU]

PLU Name / Item Count   (NOTE: In this sample, only one PLU, i.e.
  PLU Code / Sale Total   PLU No.5 is found in the designated
                                        zone No.1 to No.10 with any sales
                                        recorded. PLUs in the zone with no
                                        sales recorded will not print in PLU
                                        reports.)

ALL PLU READ OR RESET REPORT

```
Thank you
Call again


   THANK   YOU


02-05-87    #123456

          Z
PLU005           6
PLU005        9.50
PLU020           8
PLU020        3.07
SUGAR            7
PLU030        4.90


0001Z

        0055 13:21TM
```

$\left(\begin{array}{l}\text{Mode Lock: X for Read} \\ \text{Mode Lock: Z for Reset}\end{array}\right]$ Depress [PLU].)

Reset Report Sample

Reset Symbol ←——————→ Read Symbol

```
┌────────────────────────────────┐
│█                   X           │
└────────────────────────────────┘
```

PLU Name / Item Count
  PLU Code / Sale Total $]$ one PLU data

$]$

$]$
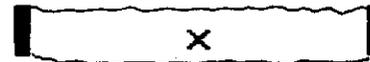
PLU Reset Count (not print in PLU Read Reports)

(Mode Lock: X for Read / Mode Lock: Z for Reset) Set the Clerk Key of the required clerk to ON, Enter 1, depress [AT/TL].)

```
      Thank you
      Call again


        THANK   YOU


   02-05-87    #123456

           Z

JONES
GS             72
              168.59
NS             54
              135.70
NS             54
              147.49
TOTAL          29CU
              144.50
CAID           60.83
CKID           31.00
FSID            1.10
NEG1           21.10
NEG2            2.99
PO             21.00
CUR1           59.76
CUR2           2,260
0001Z

JONES    0053 13:21TH
```

Reset Report Sample

Reset Symbol ←————————→ Read Sample   ┃   X   ┃

Clerk Name
Gross Sale Item Count
        Total
Net Sale (Without Tax) Item Count
                    Total ————(Tax Total; optional print)
Net Sale (With Tax) Item Count
                 Total
All Media Sales Total Customer Count
                    Amount
Cash-in-drawer Total
Check-in-drawer Total
Food Stamp-in-drawer Total
Negative Total 1 (= Percent Disc on Items + Sum of Negative Depts +
                    Item Corr on positive DP/PLU + VOID + Store Coupon
Paid-Out Total   + Returned Merchandise + Negative Mode + Negative Tax)
Foreign Cur 1 └── Negative Total 2 (= Percent Disc on Subtotal + Dollar
Foreign Cur 2   Disc + Miscellaneous Voding)
Individual Clerk Reset Report Count
           (not print in Clerk Read Reports)

IN-DRAWER READ REPORT (READ only)

(Mode Lock: X, depress [#] or [#/NS].)

Thank you
Call again

THANK YOU

02-05-87   #123456

X

CAID	60.83	Cash-in-drawer Total
CKID	6	Check-in-drawer Count
	31.00	Total
FSID	1	Food Stamp-in-drawer Count
	1.10	Total
CUR1	5	Foreign Currency 1 Count
	59.76	Total (in that currency unit value)
CUR2	4	Foreign Currency 2 Count
	2,260	Total (" " ")

JONES   0050 13:19TM

HOURLY READ OR RESET REPORT

(Mode Lock: X for Read / Mode Lock: Z for Reset] enter 10, depress [AT/TL].)

Reset Report Sample

Thank you
Call again

THANK YOU

02-05-87   #123456

Z

~08:00   Reset Symbol ⟵——————⟶ Read Symbol   ■ [X   ]
~16:00   54   Up to 8:00 (No sales data recorded)
  29CU   147.49 8:00 to 16:00   Item Count
~23:00   Customer Count / Sale Total
                 16:00 to 23:00 (No sales data recorded)
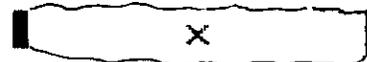
0001Z   Hourly Reset Report Count (not print in Hourly Read reports)

     0054 13:21TM

GT READ OR RESET REPORT

(Mode Lock: X for Read) enter 20, depress [AT/TL])
(Mode Lock: Z for Reset)

```
Thank you
Call again

THANK  YOU


02-05-87    #123456

      GTZ
GT
          168.59
GS        72
          168.59
DP01      19
          91.91
DP02      9
          9.38
DP03      14
          15.40
COFFEE    2
          1.90
DP05      9
          14.45
DP06      1
          2.30
DP07      0
          0.00
DP08      0
          0.00
```

Reset Symbol
] Grand Total
  (ever non-reset)
Gross Sale Item Count
          total

Departments
  Data
(Refer to
 AUTO READ/RESET)

```
        GTX
```

Read Symbol

```
NS        54
          135.70
TAX1      11.79
NS        54
          147.49
TOTAL     29CU
          144.50
CASH      23CU
          115.11
CHECK     4CU
          20.77
Chg       2CU
          7.52
FS TL     0CU
          1.10
R/A       4
          24.00
PO        4
          21.00
CAID      60.83
TXBL1     117.84
TAX EX    1CU
TAXIEX    1.00

JONES
GS        72
          168.59
NS        54
          135.70
NS        54
          147.49
TOTAL     29CU
          144.50

0001Z


     0057 13:22TH
```

Financial Data

(Refer to
 AUTO READ/RESET)

Clerks Data

(Refer to
 INDIVIDUAL
 CLERK
 READ/RESET)

GT Reset Report Count
(not print in GT READ
reports)

JOURNAL AND RECEIPT PAPER-END DETECTOR

(1) This detects when either the journal or receipt paper is coming near the end. It is provided in order to prompt the operator to replace the old paper roll with a new one.

(2) When the paper roll comes near the end (or the paper has not been set properly), no key operation (except [RF] and [JF]) will be accepted and the AMOUNT portion of the display will keep flickering.

(3) When a new paper roll is set, only the [RF] and [JF] keys are allowed to operate. Next, when the [C] key is depressed, the display flickering will be cleared and normal key-in operations will be accepted. If any printing was suspended, it will continue printing.

(4) If this detector sensed a paper-end condition during printing, the printer will stop after the current line printing is completed.

(5) The [RF] and [JF] keys are operative regardless of the detector on/off condition.

(6) If the [C] key is depressed in the paper-end condition, it will be ignored. The [C] key depression will be effective to clear the display flickering only after the new paper roll is set.

PRINTER MOTOR LOCK DETECTOR

(1) This detects the printer motor lock condition caused by some trouble.

(2) When such a condition is detected, the front display indicates "Error", and none of the keys (including [RF] and [JF]) will be accepted.

(3) To regain the normal condition, turn the power of the ECR to OFF, remove the cause of the motor lock, and then turn the power to ON again.

PAPER ROLL REPLACEMENT AND OTHER MAINTENANCE OPERATIONS
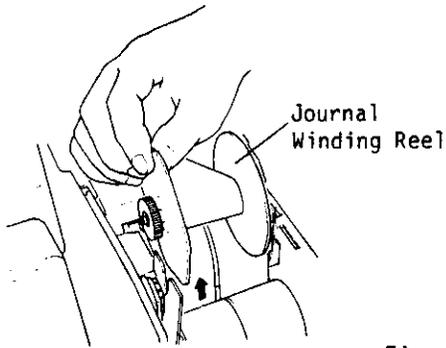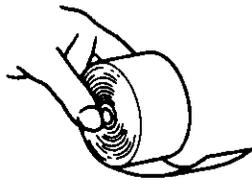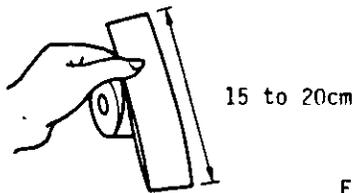
Journal Winding Reel

Fig. 1

Fig. 2

15 to 20cm

Fig. 3

Fig. 4

INSTALLING THE RECEIPT PAPER
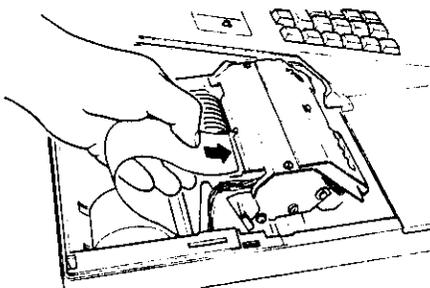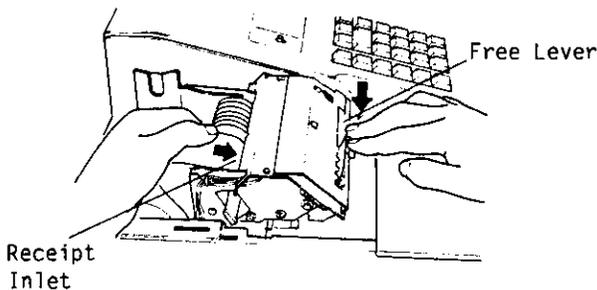
1. Turn the Mode Lock to the "REG" position with the power on.
2. Remove the Paper Cover, and remove the Journal Winding Reel (Fig. 1).
3. Hold a new paper roll in the direction as shown in Fig. 2 so that the paper end will be fed from the bottom.
4. Fold the paper end firmly as shown in Fig. 3 to ease the insertion.
5. Place the paper roll in the outer-side holder of the two roll holders (Fig. 4).
6. Insert the paper end into the Receipt Inlet, feed the paper in while pressing down the Free Lever (or feed the paper in while pressing the [RF] key). (Fig. 5)
7. When all the folded portion comes out, tear off the unnecessary part with an appropriate end length remaining (approx. 5cm or 2 inches). (Fig. 6)
8. Go on to INSTALLING THE JOURNAL PAPER steps in necessary, or go on to Step 9 below if not.
9. Attach the Paper Cover. Meanwhile, the paper end must be seen outside the cover.
10. Press the [C] key to clear the paper-end condition, and depress the [NS] key to issue a receipt to check if the paper has properly been set.


Approx. 5cm   Fig. 6

Free Lever

Receipt
Inlet

Fig. 5

Fig. 7

Fig. 8

Journal Inlet

Fig. 9

Fig. 10

Reel

Journal Paper

Fig. 11
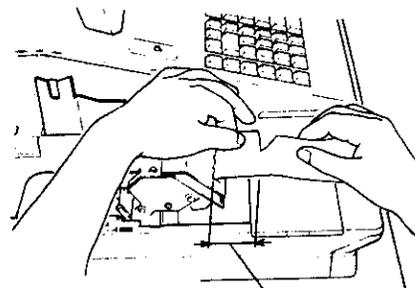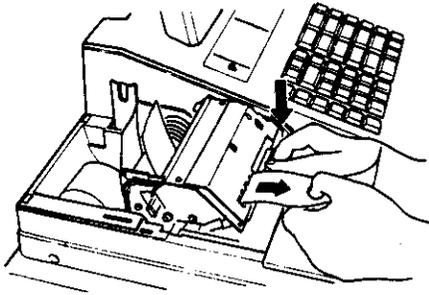
REMOVING THE RECEIPT PAPER

1. Remove the Paper Cover.
2. Press the Free Lever down and pull thè old paper core upward to remove the remaining paper end (Fig. 7).
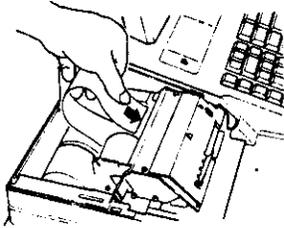
INSTALLING THE JOURNAL PAPER

1. Turn the Mode Lock to the "REG" position with the power on.
2. Remove the Paper Cover by pulling it upward, and remove the Journal Winding Reel. (Fig. 1)
3. Follow Steps 3 and 4 of INSTALLLING THE RECEIPT PAPER on the previous page.
4. Place the paper roll in the inner-side roll holder of the two holders. (Fig. 8)
5. Insert the paper end into the Journal Inlet, feed the paper in while pressing down the Free Lever (or feed the paper in while pressing the [JF] key). (Fig. 9)
6. When the paper comes out for a enough length, wind the paper end on the Journal Winding Reel two or three times, and set the Journal Winding Reel to the Reel Holder. (Fig. 10)
7. Attach the Paper Cover.
8. Press the [C] key before starting operations.
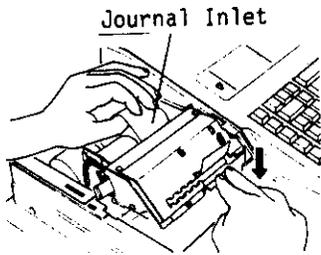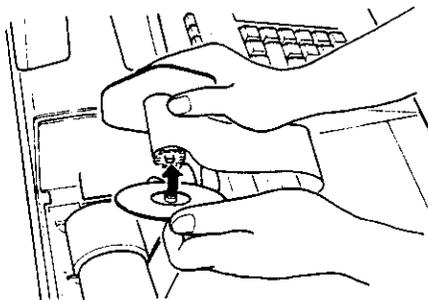
REMOVING THE JOURNAL PAPER

1. Remove the Receipt Cover.
2. Press the [JF] key to wind up enough portion of the journal paper, and then .tear off the paper, holding the Journal Winding Reel.
3. The wound-up portion of the paper can easily be removed from the Reel by pulling it side way (Fig. 11)
4. If enough paper remains on the roll, follow Steps 6 through 8 above; if paper is running out, follow Steps 1 through 8 above.
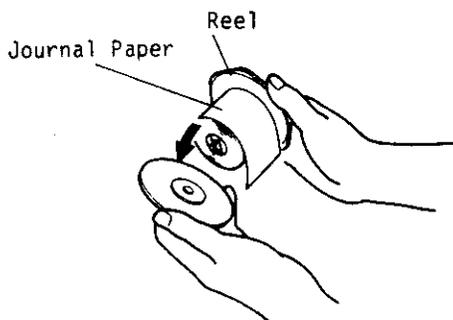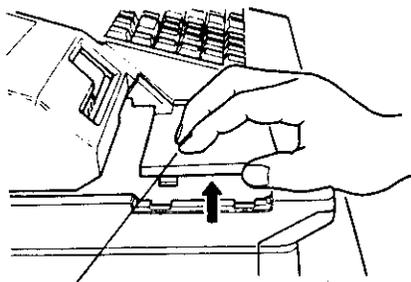
Ribbon Cover   Fig. 1

REPLACING THE RIBBON CARTRIDGE

When the receipt and journal print is too light, replace the ink roll in the following manner:

1. Remove the Ribbon Cover (Fig. 1).
2. Remove the old ribbon cartridge by pulling it toward you (Fig. 2).
3. Install a new ribbon cartridge in the reverse order to Step 2 above (Fig. 3).
4. The ribbon cartridge is a comsumable product. Be certain to use genuine ribbon cartridge supplied by your TEC representative
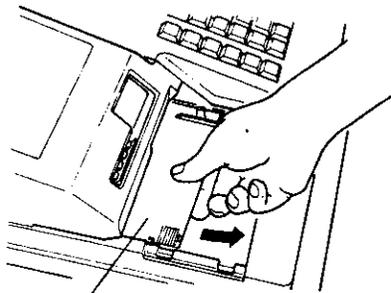
Ribbon Cartridge   Fig. 2

REPLENISHING THE STORE NAME STAMP WITH INK

When the store name stamp is printed too lightly, replenish the ink in the following manner:

1. Turn the Power Switch to OFF. Remove the Paper Cover.
2. Withdraw the store name stamp with the protruding part pinched with your fingers (Fig. 4).
3. Apply ink on the pad on the rear side of the Store Name Stamp. The amount of the refilling should be addjusted according to the density of the printed message, but the limit of 2 cc should not be exceeded. (The ink bottle supplied contains 5 cc of ink) (Fig. 5)
4. Follow the reverse order of Step 2, and then attach the cover.
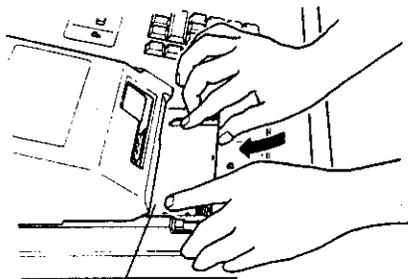
Ribbon Cartridge   Fig. 3


Store Name Stamp

Fig. 4

Ink

Store Name Stamp
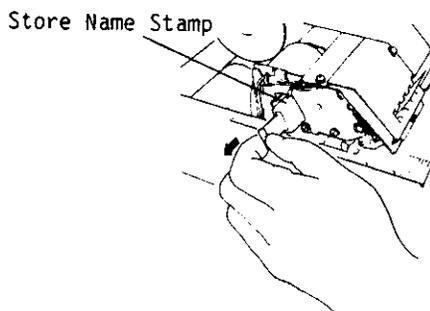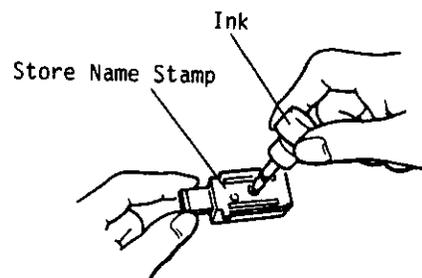
Fig. 5

MANUAL DRAWER RELEASING

The drawer opens automatically when a registration is performed. In the event of a power failure or other troubles, the drawer can be opened manually in the following manner:
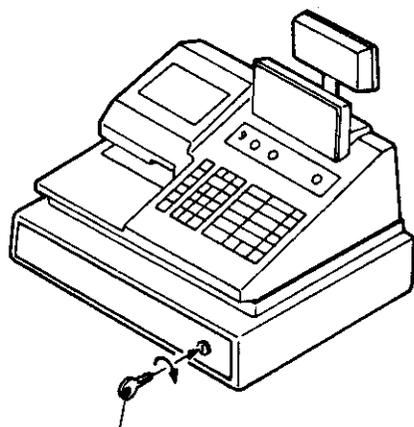
1. Insert the Drawer Release Key into the drawer release lock and turn the key clockwise. The drawer will now open. (Fig. 1)
2. The Drawer Release Key can be taken out by returning it to the original position.
3. When the drawer is closed, it is automatically locked and will not open without the Drawer Release Key or normal registering operation.

REMOVING THE DRAWER
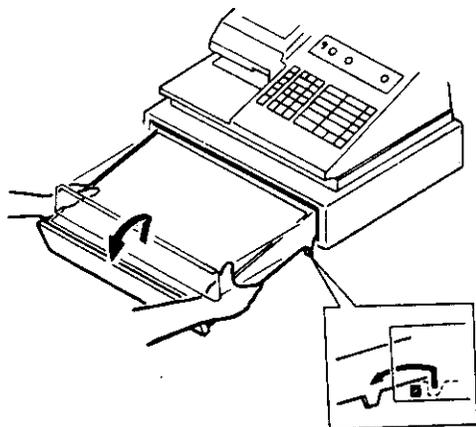
1. Pull the drawer out, and when it stops by the stopper, lift the drawer up and pull it again (Fig. 2). When it stops again by the roller fixed in the drawer case, lift it and pull it again (Fig. 3).
2. When returning the drawer, follow the reverse procedure to removing.

CDC (Cash Drawer Cover) LOCK

Locking (Fig. 4)

1. Push the Cash Drawer Cover to the drawer-end.
2. Press the cover lightly, insert the key into the key-hole on the cover, and turn it to lock.

Opening

Release the lock by the key, and lift the front end of the cover.

Drawer Release Key

Fig. 1

Fig. 2

Fig. 3

Cash Drawer Cover
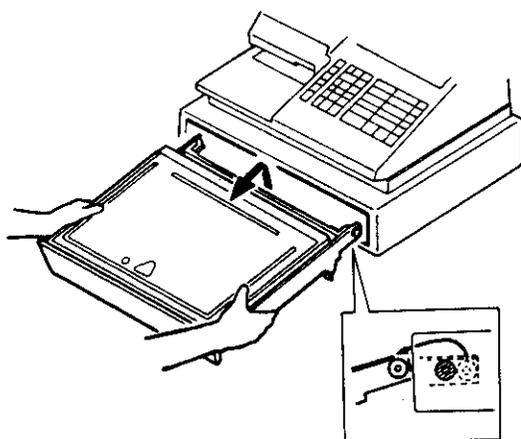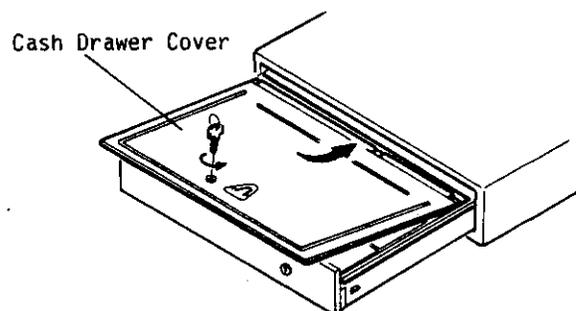
Fig. 4

WHEN A POWER FAILURE OCCURS ...

If a power failure occurs, all sales totals stored in the memories are automatically protected by the battery installed in the ECR. The battery is rechargeable and it is recharged when the AC power returns. As the power returns, the register revives to continue the work and displays the last item entered before the power failure. However, please note the following phenomena to occur on the register when the power is regained:

1. The printer will work to print the entered data without failure after the power recovery, if any data was being printed. However, one extra line may be fed on the power recovery depending on the power recovery timing.

2. The following are the display indications on the power recovery.

ECR CONDITION at the time of POWER FAILURE		DISPLAY INDICATION on the POWER RECOVERY
OUTSIDE A SALE	No key-in has been operated.	"0" display
	Numeric or Declaration keys have been entered but no motorized keys.	Same as above.
DURING A SALE	No Numeric or Declaration keys have been entered.	Regains the display content that was obtained just before the power failure.
	Numeric or Declaration keys have been entered.	Same as above.

In the event of a power failure, it is suggested to check the receipt print content before the receipt is handed to the customer.

SPECIFICATIONS

Size .... 460mm(width) x 400mm(depth) x 360mm(height)

Weight 16.5kg

Power Required .... AC 100V, 110V, 117V, 220V, 240V 50/60HZ
(varies depending on the destination.)

Power Consumed .... 0.4A at 117V (30W)

Ambient Temperature .... 0°C to 40°C, 10% to 90% Relative Humidity

Size of Rceipt and Journal Tape .. 45mm(width) x 80mm(diameter)

VALIDATION SLIP SPECIFICATIONS

Type of Paper .... Non-carbon Paper, or
Ordinary Paper + Carbon Sheet

Thickness .... 0.06mm to 0.2mm (total thickness)

Max. Number of Duplicates .... 2 sheets (including the original sheet)

Size of Slip .... min. 150mm (width) x min. 70mm (height)

```
┌──────────────────────────────────────────────────────────┐
│                                                            │
│                                                            │
│                                                            │
│         |←──── 87.5mm (44 digits) ────→|  11.7mm           │
│         ┌──────────────────────────────────┐              │
│         │30-09-86 4CL0043    CASH   360,25 │       ⊥ 15mm │
│         └──────────────────────────────────┘       ⊤      │
│                                                            │
└──────────────────────────────────────────────────────────┘
```

min. 70mm (height dimension at left)

|←────────────── min. 150mm ──────────────→|